CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Department store, Cleveland, O., W. Taylor Son & Co., $5,000,000.

Excavation, Santa Monica, Calif., plans election, $3,500,000.

Schools, Louisville, Ky., election Nov. 6, $3,000,000.

Paving, Houston, Tex., voted $2,550,000.

Office, New York, N. Y. Consolidated Gas Co., $2,500,000.

Stadium, Cleveland, O., election Nov. 6, $2,500,000.

Exchange, Hartford, Conn., Southern New England Telephone Co., New Haven, sketches, $2,000,000.

Apartments, Chicago, Ill., Syndicate, c/o D. S. Klafter, archt., sketches, $2,000,000.

Hotel, St. Louis, Mo., H. J. Rush, et al., plans, $2,000,000.

Exchange, Chicago, Ill., Illinois Bell Telephone Co., $2,000,000.

Sewers, Cleveland, O., election Nov. 6, $1,750,000.

Hotel, Windsor, Ont., Norton Palmer Hotel Co., $1,700,000.

Criminal court and jail, Cleveland, O., Bd. Comrs. Cuyahoga Co., election Nov. 6, $1,625,000.

Office and garage, San Antonio, Tex., K. M. Nix, bids after Sept. 20, $1,500,000.

Apartment hotel, San Diego, Calif., J. E. Collumb, $1,500,000.

Stores and garage, Brooklyn, N. Y., Hoerum Holding Corp., New York, $1,100,000.

Plant development, Jacksonville, Fla., Asiatic Petroleum Co., New York, $1,000,000.

Office, Jersey City, N. J., Pennsylvania R.R. Co., Phila., Pa., $1,000,000.

Roads, Cleveland, O., election Nov. 6, $1,000,000.

Bids Desired

Roads, Texas. Sept. 17, by G. Gilchrist, Austin, est. $1,396,400.

Bids Received

Subway, Long Island City, N. Y., Bd. Transportation, New York, Sect. 1 Route 108, from W. G. T. Constr. Co., Inc., New York, $6,974,000.

Public Bond Elections, coming and decided, are listed on Construction News page 142.

Buildings, Quantico, Va., Bureau Yards & Docks, Navy Dept., Wash., D. C., from J. A. Jones Constr. Co., Charlotte, N. C., $1,256,000.

Contracts Awarded

Apartment, New York, N. Y., Manhattan Square-Beresford, Inc., to H. R. H. Constr. Corp., est. $3,000,000.

Office, Ottawa, Ont., S. E. O'Brien, secy. Dpt. P. Wks., to Peter Lyall Co., Montreal, $2,500,000.

High school, Brooklyn, N. Y., Bd. Educ., New York, general contract to T. G. Sperling Co., and others, totalling $2,074,897.

Office and store, Chicago, Ill., Holabird & Root, associate archts., to Hegeman-Harris Co., for owner, est. $2,000,000.

Pipe line, Texas, Texas Pipe Line Co., (subsidiary Texas Co., New York), to C. F. Royle, White Deer, and others, est. $1,600,000.

Y.M.C.A., New York, N. Y., G. S. Bilheiner, bus mgr., to E. Corning, est. $1,000,000.

Club house, Minneapolis, Minn., Calhoun Beach Club, Inc., to Natl. Contg. Co., $1,000,000.

Apartment, Jersey City, N. J., C. Zerman, East Orange, separate contracts, $1,000,000.

Construction News of the Week

Waterworks

Proposed Work

Mich., Grosse Pointe Farms (mail Grosse Pointe)—Extending waterworks, incl. 7,570 ft. 6 and 8 in. c.i. pipe, 19 hydrants, thirty-two 6 and 8 in. gates, 15 gatewells. $15,000. F. P. Walter, Grosse Pointe Farms, engr.

Tex., Amarillo—Helium Heights Co., c/o B. B. Karger, Amarillo, waterworks in new sub-division near helium plant (now under construction). $20,000 (mostly pipe). Private plans.

Tex., Seguin—P. Tartt, engr., Moore Bldg., San Antonio, soon takes bids water purification plant for City. $40,000.

Okla., Allen—Central States Power Co. preliminary plans extending 15,000 ft. 4 and 6 in. mains. $20,000. Private plans.

Bids Desired

Mass., Boston — Sept. 24, by Dpt. P. Wks., water pipe tunnel, laying water pipes in Congress St. $50,000 bonds. J. H. Sullivan, comr.

N. J., Lyndhurst (br. Rutherford)—Sept. 17, by Bd. Town Council, Town Hall, 6 in. mains in Jauncy, Maple and Peabody Aves., Cypress, 2nd, 6th, and Kearny Sts. T. F. Bowe, Association Bldg., East Rutherford, twp. engr.

Md., Towson—Oct. 1, by Comrs. Baltimore Co., mains in Milford, Liberty Heights and Hamilton Aves., Contr. 21-W, laying 17,800 lin.ft. 6- to 12-in. pipe, valves, fittings, Contr. 20-W, 16,450 lin.ft. excav. and refill for 6- to 12-in. pipe. A. E. Walden, Courthouse, ch. engr.; adv. E. N.-R. Sept. 13.

Md., Baltimore—Sept. 19, by Bd. Awards, mains in York Rd. and Stevenson Lane. E. G. Rost, Municipal Office Bldg., water engr.

Ind., Kendallville—Sept. 18, by Common Council, altering present turbine house, constructing concrete turbine found., concrete suction well, 24 in. gravity intake line, Div. 1; traveling water screen, Div. 2. Froehlich & Emery Eng. Co., 412 2nd Natl. Bank Bldg., Toledo, O., engrs.

Minn., Minneapolis — Sept. 18, by F. S. Gram, city purch. agt., 20,000 ft. 6 in. c.i. pipe, 18 ft. lengths; eighteen 12 ft. lengths 24 in. spigot and flange; ten 24 in., hub end, for Dpt. Water. N. W. Elsberg, city engr.

Mo., California—Sept. 17, by City Clerk, 22,430 ft. 4 and 6 in. c.i. pipe, 23 gate valves and boxes, 31 fire hydrants, 11,460 lb. c.i. specials, for waterworks, $28,000; 3,740 ft. 8 in. vitr. clay pipe, 14 manholes, 2,000 ft. trenching and backfilling under 4 ft. deep, 1,000 ft. 4 to 6 ft. deep, 740 ft. 6 to 8 ft. deep, screen chamber, sludge drying bed in disposal plant, $8,000. Russell & Axon, 1945 Ry. Exch. Bldg., St. Louis, and 408 McDaniel Bldg., Springfield, engrs. Noted Sept. 6.

Tex., San Antonio—Terrell Hills Co., c/o W. Kelley, 149 East Mulberry St., taking bids sewers in 20 acre sub-division. $40,000. Hare & Hare, Huntzinger Bldg., Kansas City, Mo., engrs. Noted May 17.

Contracts Awarded

N. Y., Brooklyn—J. J. Dietz, comr. Water Supply, Gas & Electricity Municipal Bldg., New York, mains in Avenues V and W, Coney Island Boardwalk, to N. DeStefano, 378 Woodstock Ave., West Brighton, $77,745.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.) according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

N. Y., Long Island City — J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in 47th and 50th Sts., to Dragonnetti Contg. Co., 711 East 228th St., New York, $7,945; East Williston St., to Grippo Contg. Co., 40-16 201st St., Bayside, $5,963. Noted Aug. 16.

N. Y., New York — J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Bailey and Sedgwick Aves., to Melrose Contg. Co., 230 East 162nd St., $59,700; Beach, Corlear, Fteley and Morgan Aves., to Sareno Contg. Co., 1957 Colden Ave., $9,224. Noted Aug. 2.

Mich., Allen Park—For 7,545 ft. 6 and 8 in. c.i. mains, valves, hydrants, to J. A. McDace Co., 2016 Webb Ave., Detroit, $15,000.

Minn., Hancock—L. C. Blackman, village clk., 11,252 ft. 4 and 6 in. c.i. mains, 19 gate valves, 21 hydrants, to Lee, Edwards & Lee, Benson, $15,307. Noted Aug. 9.

S. D., Madison—J. W. Emberg, city aud., general contract well and well house, to J. Robertson, Madison, $10,810; pumping equipment, supply main, to C. L. Breedlove, Madison, $3,030. Noted Aug. 9.

Mo., St. Louis—Bd. P. Wks., City Hall, 2 story, 50 x 105 ft., brick, concrete office building, Kingshighway and De Tonty St., to Dunham Constr. Co., 316 Chemical Bldg., for Water Dpt., L. Day, comr. $67,660. Noted Aug. 2.

Tex., San Antonio—T. Barrett, 419 North St. Marys St., waterworks on 700 acre subdivision, incl. 3 mi. 6 in. c.i. pipe, laterals. $60,000. Owner builds. Private plans. Noted Jan. 12.

Sewers

Proposed Work

N. J., Lyndhurst (br. Rutherford)—Bd. Town Comrs., Town Hall, preliminary plans rein.-con. sewer in Chase Ave. to Kingsland Ave. $55,000. T. F. Bowe, Associated Bldg., East Rutherford, engr.

N. J., Union—Twp. Com., Town Hall, sanitary sewers in Halsey St., Edward Terrace, Morrison and Kenneth Aves. $35,000. H. Kreh, Falls Bldg., twp. engr.

N. J., West Orange — Bd. Freeholders Essex Co., Hall of Records Bldg., Newark, soon takes new bids storm drainage system on Bradford and Gregory Aves. $25,000. W. H. Stickel, Hall of Records Bldg., Newark, co. engr.

O., Cleveland Heights (Warrensville P. O.)—Trunk sewer in Monticello Blvd.

See proposal advertising on page 183

Constr. News page 137

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

A satisfied customer for more than 20 years

This one concern has laid more than 100 miles of c. i. bell and spigot water mains with Leadite joints. Working pressures exceeding 200 pounds.

The Pennsylvania Water Company, Wilkinsburg, Pennsylvania, has been a satisfied user of Leadite for over 20 years.

It has laid more than 100 miles of c. i. bell and spigot water mains with Leadite joints; sizes have varied from 4" to 42" in diameter.

It has working pressures up to and exceeding 200 pounds per square inch.

The Pennsylvania Water Company makes a systematic water waste survey of its system each year which shows the tightness of the mains laid underground.

The Pennsylvania Water Company usually lays its pipe with its own forces, but the 20" line, shown in the accompanying picture, was laid by a contractor and with most excellent results.

This line was tested and the leakage on this line ranged from 1/3 to 1/10 of the allowable leakage as ordinarily specified.

Mr. W. C. Hawley is Chief Engineer and General Superintendent of the Pennsylvania Water Company.

Section of 33,000 feet of 20 in. c. i. bell and spigot water main laid by contractor for the Pennsylvania Water Company. Pressures ranging from 70 pounds to 225 pounds per sq. in.

Specify and use LEADITE —it saves at least 75%

Be sure it is LEADITE and accept no imitations

The pioneer self-caulking material for c.i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . . Land Title Building . . . PHILADELPHIA, PA., U. S. A.

NO CAULKING

Sewers (Continued)

$250,000. F. A. Pease Eng. Co., Terminal Tower, Cleveland, engrs.

O., Columbus—Franklin Co., 1,790 ft. 6 in. c.i. mains in Sewer Dist. Marion 3, Impvt. 120, Marion Twp., $3,500; 10,285 ft. 6 and 10 in. c.i. Sewer Dist. Clinton 2, Impvt. 122, Clinton Twp., $26,000; 3,755 ft. 4- to 8-in. c.i. Sewer Dist. Franklin 4, Impvt. 129, Franklin Twp., $7,000; 1,585 ft. 6 in. Sewer Dist. Truro 1, Impvt. 131, $4,000, 6,015 ft. 4- to 8-in. Sewer Dist. Truro 1, Impvt. 134, $10,500, and 25,265 ft. 6- to 14-in. Sewer Dist. Truro 1, Impvt. 91, $60,000, all Truro Twp.; 19,780 ft. 6- to 16-in. Sewer Dist., Mifflin 1, Impvt. 110, $86,000; 5,345 ft. 6 and 8 in. Sewer Dist. Mifflin 1, Impvt. 132, Mifflin Twp., $9,000.

Tex., Amarillo—Helium Heights Co., c/o B. B. Karger, Amarillo, sewerage system in new sub-division near helium plant (now under construction). $30,000. Private plans.

Okla., Altus—Outfall sewer and disposal plant, $120,000. Peckham & Riggins, 603½ West Main St., Oklahoma City, engrs. Noted Sept. 6.

Okla., Maud — Preliminary plans 15,000 ft. 8 and 10 in. sewers in Fairview addition. $25,000. V. V. Long & Co., Colcord Bldg., Oklahoma City, engrs.

Okla., Oklahoma City—For 9,000 ft. 42 in. concrete storm sewer in East Ave. $35,000. W. W. Small, City Hall, engr.

Okla., Ponca City—Preliminary plans extending storm sewerage in business dist. $60,000. H. W. Crawford, Ponca City, engr.

Calif., Azusa—Currie system sewage plant in southwest section city. $100,000 incl. site.

Calif., Los Angeles—Los Angeles Co. 3.8 mi. vitr. sewers in Graham Unit 1, Impvt. 687, $58,950.

Calif., Los Angeles—Los Angeles Co. 12.4 mi. cement sewers in Belvedere Gardens, Unit 1, (Impvt. 577). $140,750.

Calif., Los Angeles—Sawtelle and Westwood Storm Drain System, $3,500,000; Cahuenga Ave. Storm Drain, 1,179 ft. 48 in. medium and 1,821 ft. 48 in. light storm drain, 618 ft. 24 and 36 in. rein.-con. pipe. E. A. Tuttle, Metropolitan Storm Drain Div., City Hall, ch. engr.

Ont., Windsor—Council, trunk sewer in eastern sect. city. $410,000. M. E. Brian, City Hall, engr. Noted May 3.

Bids Desired

New York—Sept. 25, by J. A. Burkart, secy. Bd. Sewer Comrs., 22 South Pearl St., Albany, at Fire Hall, Delaware and Adams Sts., Delmar, sewerage system, disposal works in Delmar-Elsmere Sewer Dist., town of Bethlehem, Albany Co. R. C. Wheeler, 36 State St., Albany, engr.

New York—Oct. 2, at Executive Dpt., Div. State Police, 190 State St., Albany, sewage disposal system, water lines, pump and pump pit at State Police Barracks, Westchester Co.; adv. E. N.-R. Sept. 13.

N. J., Bridgeton — Sept. 18, by City Council, C. P. Corey, clk., 16,220 lin.ft. 8 and 10 in. sanitary sewer. Remington & Vosbury, 509 Cooper St., Camden, engrs.

N. J., Newark — Sept. 19, by Bd. City Comrs. City Hall, relief sewer in 2nd Ave. $50,000. J. W. Costello, city engr.

Ind., Indianapolis—Sept. 14, by Bd. P. Wks., main sewer in Pleasant Run Blvd., South Dr. and Greenbriar Lane.

Ia., Orange City—Sept. 22, by City, sewage disposal plant, incl. Imhoff tank, rock filters. W. E. Buell & Co., Davidson Bldg., Sioux City, engrs.

Neb., Gordon—Sept. 17, by City Clerk, filter beds, pumping station, Imhoff tanks. $30,000. Henningson Eng. Co., 326 Union State Bank Bldg., Omaha, engrs. Noted Aug. 30.

Neb., Rushville—Sept. 18, by City Clerk, 22,500 ft. 8- to 15-in. sewers, 60 manholes, 8 flush tanks, 2,400 ft. ¾ in. galvanized pipe, sewage disposal plant, incl. Imhoff tank and dosing chamber, sludge bed, sprinkling filter. Henningson Eng. Co., 326 Union State Bank Bldg., Omaha, engrs.

Mo., California—See "Waterworks."

Tex., San Antonio—Terrell Hills Co., c/o W. Kelley, 119 East Mulberry St., taking bids 2- to 6-in. c.i. water distributing system in 200 acre sub-division. $30,000. Hare & Hare, Hutzinger Bldg., Kansas City, Mo., engrs. Noted May 17.

Okla., Garber—City Clerk bids about Sept. 15, sanitary sewer extension. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Weatherford — City Clerk bids about Sept. 20, sanitary sewerage system. $45,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Ont., Palmerston—Sept. 18, by S. Mathers, town clk., sewage disposal plant. $35,000. F. W. Thorold, 54 Admiral Rd., Toronto, engr. Noted Sept. 6.

Contracts Awarded

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewer in Farragut Rd., to S. Guerriero, 1024 66th St., $10,747; North 14th St., to P. Tomassetti Contg. Co., 1074 60th St., $5,925; East 95th St., to C. Tozzi, 1354 63rd St., $1,602. Grand total $18,274. Noted Aug. 9.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, sewer in Olympia Ave., to J. J. Johnson, 445 Bway., West New Brighton, $96,336; Alter Ave., to T. W. Rogers, $66,938. Finley Ave., to Substructure Co., $7,051. Grand total $170,325. Noted Aug. 2.

N. J., Glen Ridge — Boro Council, Joint 3rd River Sewer, 12,400 lin.ft. monolithic concrete pipe, to Pratt & Lord, Chester, Pa., $188,000. Noted Aug. 9.

Pa., Phila.—Dpt. P. Wks., Bureau of Engineering & Surveys, branch sewers in Belden and Shisler Sts., to Leva Bros., 104 Gale St. $9,076 and $9,651 respectively—Briar Rd., to A. Frunzi, 513 High St. $13,465—Bristol St., to P. and A. J. Ellis, 4th and Wyoming Sts. $5,778—Devereaux St. and Summerdale Ave., also Leverick and Algard Sts., to A. Di Sandro & Son, 6400 North 5th St., $23,058 and $12,527 respectively—Friendship St., to Jafalla & Mark, 606 Lindley St. $8,194—Grovers Ave., to V. Jafalla, Penna Bldg., $12,468—I St. and Whitaker Ave., to Vattieri & Pontarelli, 523 Rising Sun Ave. $5,618 and $12,660 respectively—I St., to E. Venbresco, 6016 Ross St. $3,354—Knorr and Unruh Sts., to Pasquale Pinciatti, 4103 Roosevelt Blvd., $25,680 and $22,866 respectively—Luzerne St., to Campellone & Diorio, 3856 North 10th St., $6,822—13th St., to F. Jafalla, Cheltenham, $6,255. Grand total $177,472.

Fla., Bonifay — K. G. Rooks, city clk., sewerage system, water extension, to F. Mosley, Inc., Panama City, $40,032. Noted Aug. 30.

O., Wickliffe (br. Cleveland)—Sewers in Euclid Ave. (West and Center Sects.), to Iafornara-Galletti Co., Union Mortage Bldg., Cleveland, $63,583 and $68,000 respectively; Euclid Ave. (East Sect.) and Lloyd Rd., to Curro & Whittaker Co., Engineers Bldg., Cleveland, $69,635 and $167,369 respectively; brick sewer in Worden Rd. ,to Manson Co., Engineers Bldg., Cleveland, $103,735. Grand total $472,322.

Mich., Dearborn — M. A. Stevens, city clk., 16,790 ft. 12- to 48-in. sewers in Sewer Dist. 23, to J. Rossi, 17501 Outer Dr., Detroit, $47,940. Noted July 26.

Ill., Fullersburg (Hinsdale P.O.)—Storm water system, to T. H. Iglehart, 166 Jackson St., Chicago, $80,920.

N. D., Jamestown—W. O. DePuy, city aud., sewage disposal plant, to E. A. Moline, Jamestown, $86,555. Noted Aug. 23.

Tex., Houston—Sewers in Oxford St., to Walker & Elder, 4714 Jack St., $109,231 est. $125,000; in Commonwealth St., to Tellepsen Constr. Co., 4400 Clay St., $45,183. Est. $50,000.

Okla., Oklahoma City—For 11,000 ft. 15 and 18 in. concrete sewers in 9th St., to Koller Constr. Co., Tradesmens Bldg., $21,235. Est. $33,000.

Okla., Tulsa—For 15,992 lin.ft. 8 in. vitr. clay sewers in Dist. 275, Hickory Manor Addition, Blocks 1, 3, 4, 5, 6, 7 and 8, Florence Park Addition, Block 2, Exposition Heights 2nd Addition, 3rd addition Sunrise Terrace, to W. B. Carter, 7 North Rockford St., $37,297.

Ont., Port Colborne—For 7,187 ft. storm sewers, to R. H. McGregor, 261 Donlands Ave., Toronto, $55,000.

Ont., Sandwich—For 8 in. and up vitr. tile sewers in Lena St., Manchester and Matchett Rds., to Coulotii Bros., 612 Langlois Ave., Windsor, $28,141; Sunset Ave., to Ryan Constr. Co., 109 Ottawa St., Walkerville, $1,639. Est. $30,000.

Ont., Toronto—S. M. Bride, mayor, City Hall, sewers in Foreman Ave., Sects. A-B and B-C, to L. P. Acri, 28 Grove St., $15,804; Harrison St. and 3 lanes, to P. Corradi, 19 Hocken Ave., $5,307; Yonge St. Sect. B-C, to Natl. Contg. Co., 52 Imperial St., $7,671; Yonge St., Sect. C-D, to Ruscica Bros., 84 Woodycrest Ave., $15,290; Commissioners and Elm Sts., Sect. A-B, to Worthington Constr. Co., Roselawn Ave., $22,603; Lane 2nd north of Danforth Ave., to J. Fornica, 2147 Dufferin St., $575; Kew Beach Crescent and Bouchette St., to owners by day labor, $12,882. Grand total $80,132. Noted May 10.

Ont., Toronto—Scarborough Twp., sewage disposal plant, sluice valves, Contr. B, to Laurie & Lamb, 42 St. Sacrament St., Montreal, Que., gate valves, Contr. B, to Drummond McCall & Co., 373 Front St. E.; c.i. pipe and fittings, Contr. C, to Dominion Wheel & Foundries, 131 Eastern Ave. Est. $50,000.

Waste Disposal

Proposed Work

N. J., Teaneck (mail West Englewood)—Twp. Com., Municipal Bldg., preliminary plans incinerator. $125,000. P. Fraleigh, Teaneck Rd. and Cedar Lane, engr.

Bridges

Proposed Work

Vermont—State Hy. Bd., Montpelier, rejected bids Aug. 31, bridges in Ludlow, Orchard Hill, Mt. Holly and Smithville; received no bids bridge in West Burke. S. B. Bates, comr.

Mass., Boston—City, Dpt. P. Wks., six 60 ft. girder span steel, concrete draw bridge, 125 ft., on Congress St. $800,000. J. E. Cartv, City Hall, engr.

Ind., Hammond—Comrs. Lake Co. expending $965,000, rein.-con. arch bridge on Dickey Rd., East Chicago, $475,000—small bridges in county, $120,000—roads, $370,000. C. K. Wallace, Hammond, engr.

Ind., Richmond—Comrs. Wayne Co., rein.-con. arch bridge over Whitewater River, on South G St. $320,000. G. Gault, Richmond, engr.

California—See "Railways."

Bids Desired

R. I., Pawtucket—Sept. 17, by City, Eng. Dpt., City Hall, 210 ft. rein.-con., granite bridge, Exchange St. $250,000. F. C. Williams, City Hall, engr.

N. J., Trenton—Sept. 18, by Bd. Freeholders Mercer Co., 2 concrete bridges, culvert at Glenmore and Marshall Corner, Hopewell Rd., $81,000. H. F. Harrs, Trenton, co. engr.

W. Va., Charleston — See "Streets and Roads."

South Carolina — Sept. 25, by State Hy. Dpt., Columbia, 7,250 lin.ft. treated timber bridge over South Edisto River, on Route 24, Project 589-D, Orangeburg and Bamberg Counties—228 lin.ft. steel bridge over Southern R.R., Route 2, Project 682-A, Lexington Co.—structural steel bridge over Saluda River, on Route 391, Project 706, Newberry and Saluda Counties. B. M. Sawyer, ch. engr.

Kentucky—Sept. 28, by State Hy. Dpt., Frankfort, three 140 ft. steel spans, concrete piers, abutments, grading approaches bridge over Cumberland River at Blackmont, S. P. 205 A-B, Bell Co.—three 38 ft. deck girders and 30 degree skew bridges at Paris, S. P. 32 A-B, Bourbon Co.—three 45 ft. girders and 30 degrees skew bridges, on Bloomfield-High Grove Rd., S. P. 44 A-B, Nelson Co.—three 45 ft. deck girders over Grears Creek, S. P. 20 A-B, Woodford Co. J. S. Watkins, hy. engr.

O., Youngstown — Oct. 5, at office F. A. LaBelle, secy. Bd. Dirs. Mahoning Valley Sanitary Dist., 901 City Bank Bldg., Ohltown Viaduct and approaches. W. H. Dittoe, ch. engr.; adv. E. N.-R. Sept. 13.

Wisconsin—See "Streets and Roads."

Iowa — Sept. 18, by State Hy. Comn., Ames, 16 x 20 ft. high truss bridge on U. S. Road 161, near Filmore, F.A.B. 17, Dubuque Co.—150 x 20 ft. high truss bridge with two 40 x 20 ft. I-beam approaches, 2 box culverts Primary Road 17, near Estherville, B-301, Emmet Co.—adding two 40 x 18 ft. I-beam approaches to skew pony truss bridge, U. S. Road 34, near Lucus, B-550, Lucus Co.—25 culverts Martinsburg-Sigourney Rd., B-246, and 3 culverts, Richland Rd., B-547, Keokuk Co.—1 twin box culvert near Washington, B-544, Washington Co. R. F. White, hy. comr.

Kan., Larned—Sept. 27, by Clerk Pawnee Co., ten 45 ft. span deck girder bridge, 1 mi. south of here. $25,000 or more. LeRoy Harris, Larned, engr.

Mo., St. Louis—Oct. 9, by Bd. P. Serv., City Hall, timber deck and railroad tracks for southern approach to St. Louis Municipal Bridge. $175,000. C. E. Smith & Co., Ry. Exch. Bldg., engrs.

Texas—Sept. 18, by G. Gilchrist, state hy. engr., Austin, rein.-con., steel bridges on Hy. 6, Ellis Co. $25,000. W. A. Spalding, Waxahachie, resident engr.

Okla., Oklahoma City—Sept. 18, by J. W. Berry, clk. Oklahoma Co., 3 rein.-con. bridges, one 4 span 66 ft., incl. 21.4 tons I-beam and 13.2 tons reinforcing steel, at Arcadia. $26,200—one 5 span 82 ft., incl. 17.7 tons I-beam and 21.6 tons reinforcing at Jones, $28,000—other 6 span, 96 ft., incl. 28.5 tons I-beam and 26.4 tons reinforcing at Bethany, $30,000. R. S. James, Court House, engr.

New Mexico—See "Streets and Roads."

Constr. News page 138

YOU undoubtedly know of the records being made by *High-Early-Strength* Universal Concrete—foundations, driveways, bridges, buildings, roads and streets ready for use weeks earlier than usual; forms removed more quickly and used more often; *permanently* greater strength secured in addition to high *early* strength (see diagram).

But did you know that this concrete does not require the purchase, stocking or handling of special cement at premium prices? In making *High-Early-Strength* Universal Concrete, the *usual* labor, the *usual* aggregates and the *usual* Universal cement are used.

The *unusual* results are obtained by the application of definite and fully tested methods—methods being used on *all types* of jobs.

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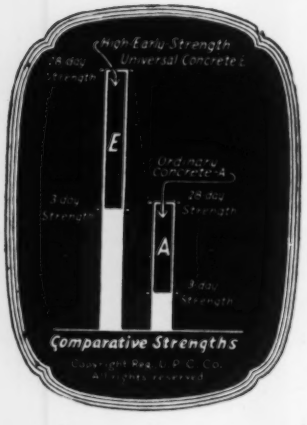

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

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Without obligation, send me detailed information on methods of securing strong concrete in *3 days* with the *usual* materials, *usual* equipment, *usual* labor, and *usual* Universal cement.

Name .....

Address ..... ENR 9-13-28

Bridges—(Continued)

Contracts Awarded

Vermont—See "Streets and Roads."

Vermont—State Hy. Bd., State House, Montpelier, bridge and approaches in Stockbridge, to C. I. Hosmer, Greenfield, Mass., $50,402. Noted Aug. 16.

Massachusetts—See "Streets and Roads."

Mass., Boston—Dpt. P. Wks., widening Ashland St. Bridge, to A. G. Tomasello & Son, Inc., 250 Stuart St., $25,801. Noted Aug. 16.

New Jersey—State Hy. Comn., Trenton, bridge over Cape Island Creek, Cape May Co., to Whittaker & Diehl, Union Trust Bldg., Harrisburg, Pa., $126,982. Noted Sept. 6.

New Jersey—Somerset Co., Court House, Somerville, bridge from Basking Ridge to Millington, to H. E. Terrill, Somerville, $33,742. Noted Aug. 23.

Kentucky — State Hy. Dpt., Frankfort, concrete substructure bridge on Hazard Rd., Breathitt Co., to E. R. Mills, Covington, $28,182; steel superstructure, to Vincennes Bridge Co., Vincennes, Ind., $26,704.

Ohio—H. J. Kirk, dir. Hys., Columbus, rein.-con. bridge in Ashland Co., to Funk & Kyler, Jeromeville, $4,726—in Highland Co., and concrete slab bridge Champaign Co., to Clark Bros. & Co., Inc., Maysville, $11,902 and $15,454 respectively—6 span concrete bridge Mahoning Co., to C. Shutrump Co., Home Savings & Loan Bldg., Youngstown, $74,485—concrete bridge Van Wert Co., to B. H. Wertz, St. Johns, $3,871—standard slab bridge Paulding Co., to F. Bunting & O. Casebere, Montpelier, $7,997—steel girder, concrete slab bridge Erie Co., to Homberger-Wager Eng. & Constr. Co., Sandusky, $15,190—twin slab bridge Madison Co., to L. H. Nixon, Columbus, $12,986—twin span concrete bridge, approaches Crawford Co., to C. C. Morrow, Cresline, $9,227—standard girder bridge Defiance Co., to W. S. Hostler, Mt. Blanchard, $15,979—extension to Williams St. Bridge over Olentangy River, Delaware Co., to E. M. Scully, Columbus, $14,230. Grand total $186,047. Noted Aug. 23.

Ohio—H. J. Kirk, dir. Hys., Columbus, 3 span concrete bridge Wayne Co., to Holmes Constr. Co., Wooster, $23,863—bridge over Kilbuck Creek, to J. Hill, Ada, $14,994—steel truss bridge Huron Co., to Allen County Paving Co., Lima, $20,760—bridge over Boke's Creek, to Brookville Bridge Co., Brookville, $20,333—steel truss bridge, Henry Co., to Gluss Bros., Hamler, $23,738. Grand total $103,688. Noted Aug. 23.

Ind., Indianapolis—For 5 span rein.-con. arch bridge over White River, on West Morris St., to Natl. Concrete Co., Lemcke Bldg., $398,000.

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, bridges in Ogle Co., to F. Kanev, Forreston, $28,272—Lake and Cook Counties, to R. Mann, 2331 Charles St., Rockford, $52,651 and $29,440 respectively—Hancock Co., to H. C. Holmes, Macomb, $18,058—Shelby Co., to Casey Constr. Co., Casey, $31,403—Shelby Co., to Continental Bridge Co., 460 Monadnock Blk., Chicago, $8,269—Ogle Co., to Ferguson Constr. Co., 218 East State St., Rockford, $28,213—Livingston and Ford Counties, to Nelson Concrete Culvert Co., Pontiac, $11,824—Knox Co., to A. P. Munson, Marion, $11,014—Knox Co., to Clinton Bridge Wks., Clinton, Ia., $5,195—Stephenson Co., to O. G. Hively, 1435 South Carroll Ave., Freeport, $27,419—Stephenson Co., to Vincennes Bridge Co., Vincennes, Ind., $13,386. Grand total $299,272. Noted July 5.

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield **(r.c.s.b. means rein.-con. bridge and r.c.s.b. means rein.-con. slab bridge)**, to M. C. Robinson, Girard, 3 rein.-con. culverts, 1 r.c.s.b. Cass Co. $10,964—to H. L. Roberts, Rushville, 2 rein.-con. box culverts, 1 r.c.s.b., 2 r.c.g.b. 1 rein.-con. substructure, Morgan Co. $71,294—to Illinois Steel Bridge Co., Jacksonville, 80 ft. steel superstructure, Morgan Co. $5,226—to C. D. Stratton, Little York, 80 ft. steel superstructure, Henderson Co. $90,000—to J. S. Wolf, Libertyville, 20 ft. r.c.s.b. Hancock Co. $7,243; 16 ft. r.c.s. span, 2 rein.-con. substructures McLean Co. $13,468, 3 rein.-con. spans, Iroquois Co. $15,541—to Vincennes Bridge Co., Vincennes, Ind., one 70 ft. and one 80 ft. steel superstructures, McLean Co. $8,663; one 60 ft. and one 80 ft. steel superstructures, Pike Co. $8,190—to S. J. Groves & Sons, Milwaukee, Wis., 5 rein.-con. box culverts, 17 ft. r.c.s.b., two 35 ft. r.c.g.b., McHenry Co. $24,127—to Taylor Constr. Co., Hubbard Woods, three 35 ft. r.c.g.b., and 2 rein.-con. box culverts, Lake Co. $22,802—to Marshall Eng. Corp., Chicago, structural steel overhead railroad bridge, Cook Co. $33,097—to H. C. Holmes, Macomb, 60 ft. r.c.g.b. and one 16 ft. r.c.s.b. Henry Co. $16,843; 2 rein.-con. box culverts, 45 ft. r.c.g.b., one 60 ft. and one 80 ft. rein.-con. substructures, Pike Co. $24,617—to W. H. Shons Co., Freeport, three 20 ft. steel bridge on pilings, Johnson Co. $3,246—to Herrick Constr. Co., Carlinville, two 120 ft. span rein.-con. substructure, McLean Co. $9,390—to Continental Bridge Co., 460 Monadnock Blk., Chicago, two 120 ft. span steel superstructure, McLean Co. $14,710—to Zimmerly Bridge Co., Paris, creosoted wood sidewalk for bridge, Vermilion Co. $1,769. Grand total $300,190. Noted Aug. 22.

Wis., Milwaukee — See "Streets and Roads."

Kan., Eldorado—See "Streets and Roads."

Oregon—State Hy. Comn., Salem, bridge over Deschutes River and railroad tracks, Wasco Co., to Kuckenberger & Whitman, Bd. of Trade Bldg., Portland, $94,860.

Dams

Proposed Work

Okla., Loveland—See "Waterworks."

Railways

Proposed Work

Alabama—Birmingham, Selma & Mobile R.R. Co., W. B. Coates, pres., Montgomery, extending 10 mi. main line and 22 mi. branch line in Perry and Hale Counties.

Oklahoma—Chicago, Rock Island & Pacific Ry. Co., C. A. Morse, ch. engr., Chicago, Ill., preliminary plans 3 mi. railroad extension between Bison and Waukomis. $75,000.

Oregon—Edward Hines Lumber Co., 2431 South Lincoln St., Chicago, Ill., surveys 65 mi. railroad from Burns to Molher Forest Reserve.

California—Southern Pacific R.R. Co., G. W. Boschke, ch. engr., 65 Market St., San Francisco, 6.1 mi. railroad from point on existing line at Martinez to Goodyear, also bridge over Suisun Bay to Army Point.

Bids Desired

Missouri—See "Bridges under St. Louis."

Contracts Awarded

Missouri—Kansas City Southern Ry. Co., A. N. Reese, ch. engr., 11th and Wyandotte Sts., Kansas City, grading for railroad line between Leeds and Grandview, incl. 350,000 cu.yd. solid rock, 529,000 cu.yd. common, 133,000 cu.yd. borrow and 200,000 cu.yd. earth excav., 2,440,000 lb. steel, 30,550 ft. waterproofing, to List Constr. Co., Ry. Exch. Bldg., Kansas City. Noted Aug. 30 under "Contracts Awarded."

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

D. C., Wash.—English Constr. Co., Inc., Wash., wants prices excavation on large foundation concrete job; adv. E. N.-R. Sept. 13.

N. J., Bradley Beach—Bd. City Comrs., jetties on beachfront. $30,000. N. Rogers, Asbury Park, engr.

Texas—Foard, Cottle, Hardeman and Wilbarger Counties and Federal Government, surveys reservoir on 10,000 acre site 5,600 ft. impounding dam, 110 ft. high, 2 mi. from Quanah-Crowekk Hy., involving 150,000 acres land in irrigation project. $5,000,000. Address J. B. Nabors, Vernon, resident engr. Wilbarger Co.

Bids Desired

Mo., Kahoka—Sept. 17, by Des Moines and Mississippi Levee Dist. 1, Clark Co., at office W. E. Bates, secy., Seggelke Store, Alexandria, 381,700 cu.yd. ditches, levees, 5 x 7 x 161 ft., rein.-con. sluiceway, one 2 x 2 x 150 ft. and two 5 x 5 x 150 ft. rein.-con. inverted siphons, pumping plant, oil engine or electrically driven. Bushnell & McCann, Quincy, Ill., engrs.

Tex., Natalia — Oct. 1, at office P. A. Welty, dist. engr. and mgr. Bexar-Medina-Atascosa Counties Water Impvt. Dist. 1, excavating 400,000 cu.yd. canals, laterals, drains, ditches, dams, levees.

Que., Roberval — Sept. 19, by S. E. O'Brien, secy. Dpt. P. Wks., Ottawa, Ont., reconstructing, extending breakwater. $29,000.

British Columbia — Sept. 20, by S. E. O'Brien, secy. Dpt. P. Wks., dredging Burnaby Shoal $25,000, Vancouver $20,000, First Narrows, $15,000.

Contracts Awarded

Mass., Barnstable—Dpt. P. Wks., Boston, dredging Seapuilt River, to Trimount Dredging Co., 10 State St., Boston, $19,860.

Mississippi—Pigeon Roost Creek D. D., c/o J. C. Tucker, Holly Springs, clearing 320 acres right-of-way, 771,100 cu.yd. excav., Marshall, Tate and Desoto Counties, to D. W. Robins, Tupelo. Noted July 19.

Ill., Colfax—Lawndale & Cropsey D. D. McClean Co., 14,217 ft. 6- to 22-in. tile in Sub-Dist. 3, to L. A. Moore, Mt. Pulaski; tile, to Streator Drain Tile Co., Streator.

Ia., Council Bluffs—Harrison Co. (Logan) and Pottawattamie Co. (Council Bluffs) 72,000 cu.yd. excav. in Coulthar Levee in Nobles Lake D. D., to Mills Constr. Co., Omaha, Neb.

Ia., Fairfield — Jefferson Co., 560,000 cu.yd. excav. in Cedar Creek D. D. 6, to Jack Boyne Constr. Co., Council Bluffs, $38,600.

Minn., Minneapolis — A. P. Erickson, aud. Hennepin Co., Judicial Ditch 6, 15,700 lin.ft. 12- to 24-in. tile, to Iowa Pipe & Tile Co., East 4th and Hayes Sts., Des Moines, Ia., $6,769; 95,300 lin.ft. 5- to 10-in. tile, to Mason City Brick & Tile Co., 554 Builders Exch., $4,608. Noted Aug. 16.

Streets and Roads

Bids Desired

Massachusetts—Sept. 18, by Dpt. P. Wks., Boston, graveling, oiling 3,800 ft. hy. in Westford; bituminous macadam paving 38-373 ft. in Clarksburg, Florida, North Adams and Beverly. W. F. Williams, comr.

N. Y., Brooklyn — Sept. 19, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading, sheet asphalt on 6 in. concrete paving Brooklyn and Irving Aves., Bristol, East 35th, East 42nd, Ford, Eldert, West 22nd and 41st Sts.—grading, curbing, flagging East 35th St.—recurbing, asphalt on 6 in. concrete paving Avenue T.

N. Y., Long Island City—Sept. 19, by B. M. Patten, pres. Queens Boro, Queens Subway Bldg., grading, sidewalks on 19th St. from 89th to 90th Sts.—199th St. from 93rd St. to Jamaica Ave.—Queens Blvd. from 30th Pl. to 48th St.—Queens Blvd. from Van Dam St. to 39th Pl.—grading, granite block on concrete paving 44th Rd. (13th St.)—grading, sheet asphalt on concrete paving Cooper Terrace and Cypress Hills Rd.—69th (Fisk) Ave., Graham, 90th and Hillside Aves., 105th, 133rd and 97th Sts.

N. Y., Long Island City—Sept. 20, by B. M. Patten, pres. Queens Boro, Queens Subway Bldg., grading, sheet asphalt on 8 in. concrete repaving Northern Blvd. from 157th St. to Auburndale Lane—Northern Blvd. from Auburndale Lane to 206th St.—and Northern Blvd. from 206th St. to 220th St.—sidewalks on 162nd St.—sheet asphalt on concrete paving Central (Westchester) Ave.

N. Y., Rye—Sept. 19, by W. H. Selzer, village clk., Municipal Hall, Purchase St., rein.-con. paving Redfield St., Forest, Beck and Stuyvesant Aves.; tar or asphaltic macadam paving Hewlett St. and Newberry Pl. J. A. Ehler, village engr.; adv. E. N.-R. Sept. 13. Noted Aug. 23.

N. Y., Rye — Sept. 19, at office Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, stone faced rein.-con. bridge, on Boston Post Rd., Cross Country Parkway. J. Downer, Bronxville, ch. engr.; adv. E. N.-R. Sept. 13.

New Jersey — Sept. 24, by State Hy. Comn., Trenton, grading, 9 in. single line rein.-con. paving 49,516 sq.yd. Route 29 (1927), Sect. 2, Union Co.; 30,315 sq.yd. Route 35 (1927), Sect. 7, Monmouth Co. A. L. Grover, ch. engr.; adv. E. N.-R. Sept. 13.

Pa., Carmichaels — Sept. 15, by Bd. Supervs. Cumberland Twp., Greene Co., William Burnette Bldg., grading, 2.5 in. bituminous paving public highway between Bayard Ave. in Rices Landing to point near office Crucible Fuel Co.

Md., Baltimore—Sept. 19, by Bd. Awards, concrete paving 12,750 sq.yd. alleys in Alley Contr. 130; sheet asphalt paving 12,900 sq. yd. Contr. 484. N. D. Smith, hy. engr.

West Virginia—Sept. 17, by State Road Comn. and Putnam Co. at Court House, Winfield, grading 4.63 mi. Hurricane-Mount Vernon Rd., Project 3311. H. J. Spelman, P. & R. Bldg., Huntington, div. engr.

Constr. News page 139

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Sales Agencies in All Principal Cities

Streets and Roads (Continued)

West Virginia—Sept. 25, by State Road Comn., Charleston, E. B. Carskadon, secy., brick or concrete paving 3.4 mi. Weirton-Pennsylvania State Line Rd., Project 167, Hancock Co. H. E. Snyder, Parkersburg, div. engr.

W. Va., Charleston—Sept. 25, by Kanawha Co., Court House, concrete paving 3 mi. Dunbar-Sattes Rd., Project 138—1.1 mi. Tuppers Creek Rd., Project 217—concrete substructure Allens Fork Bridge over left fork of Poca River Project 108. C. M. Ross, Court House, co. road engr.

W. Va., Wheeling — Sept. 19, by Bd. Comrs. Ohio Co., grading, rein.-con. paving 4,000 lin.ft. Wheeling, West Liberty and Bethany Pike. T. C. Stenenson, clk.

South Carolina — Sept. 25, by State Hy. Dpt., Columbia, grading, plain concrete paving 9.398 mi. Project 571, Aiken Co.—10.69 mi. Project 655, Contr. 2, Greenville Co.—8.47 mi. Project 708, Marion Co.—9.24 mi. Project 668-B, Anderson Co.—sand clay surfacing 7.492 mi. Project 574-B and C, Colleton Co.—top-soiling 6.439 mi. Project 703-A, Saluda Co. B. M. Sawyer, ch. engr.

Fla., Gainesville—Sept. 25, at office Bd. Bond Trustees Special Road & Bridge Dist. 1, Court House, grading, guttering, single surface treatment on 8 in. compacted line paving 150,000 sq.yd. W. R. Thomas, chn.

Kentucky—Sept. 28, by State Hy. Dpt., Frankfort, grading 15.5 mi. Lawrenceburg-Bardstown Rd, S. P. 44-A-G, Anderson Co.—7 mi. Murray-Tennessee State line Rd., S. P. 9-C-G, Calloway Co.—5 mi. Liberty-Campbellsville Rd., S. P. 154-B-G, Casey Co.—3 mi. Greensburg-Edmonton Rd., S. P. 1-A-G, Green Co.—6.3 mi. Henderson-Owensboro Rd., S. P. 8-D-G, Henderson Co.—12.7 mi. Gratz-North Pleasureville Rd., S. P. 19-C-G, Henry Co.—2.9 mi. Natural Bridge Rd., S. P. 188-A-G, Powell Co.—reconstructing 2.3 mi. Lawrenceburg Ashbrook-Springfield Rd., S. P. 152-A-S, Anderson Co., 4.9 mi. Mt. Olivet-Sardis Rd., S. P. 172-A-S, Robertson Co.—4 mi. Falmouth-Brooksville Rd., S. P. 101-A-S, Pendleton Co.—grading, bridging, surfacing approaches 1.06 mi. Liberty-Campbellsville Rd., S. P. 154-A-S, Casey Co.—grading, surfacing 5.2 mi. Stanford-Huntonville Rd., S. P. 23-C-S, Lincoln Co.—surfacing 8.8 mi. New Castle-Frankfort Rd., S. P. 64½-A-S, Henry and Shelby Counties—11 mi. Morganfield-Shawneetown Rd., S. P. 75-A-S, Union Co.—6.4 mi. Clay-Providence Rd., S. P. 124-A-S, Webster Co—2.1 mi. Franfort-Newcastle Rd., S. P. 64½-A-S, Franklin Co. J. S. Watkins, hy. engr.

Ind., Crown Point—Sept. 24, by Comrs. Lake Co., concrete paving H. B. Snyder Rd. 1 in Calumet Twp. W. E. Whitaker, Crown Point, aud.

Ind., Indianapolis—Sept. 17, by Bd. P. Wks., alternate types paving Hovey St., Arlington and Hoyt Aves., also bridge over canal, on 11th St.

Ind., Indianapolis—Sept. 19, by Bd. P. Wks., alternate types paving Sheldon and East Sts., Jefferson and Arlington Aves.

Michigan—Sept. 25, by E. R. Benkert, resident engr., Pt. Huron, graveling 5.064 mi. MO32-34, C-1, 16 ft., Huron Co., for State Hy. Dpt., Lansing.

Michigan—Sept. 25, by Village of Plainwell, widening 2.469 mi. MO3-19, C-1, 20 ft., Allegan Co., for State Hy. Dpt., Lansing. R. A. Beers, Kalamazoo, resident engr.

Michigan—Sept. 26, by R. W. Roberts, resident engr., Saginaw, concrete paving 3.907 mi. MO73-12, C-1, 20 ft., Saginaw Co., for State Hy. Dpt., Lansing.

Michigan—Sept. 26, at City Clerk's Office, Saginaw, concrete paving 2.757 mi. MO73-6, C-1, 20 and 40 ft., Saginaw Co., for State Hy. Dpt., Lansing. R. W. Roberts, Saginaw, resident engr.

Michigan—Sept. 26, by A. R. Schaefer, resident engr., Newberry, concrete paving 5.232 mi. MO2-14, C-1, 20 ft., Alger Co., for State Hy. Dpt., Lansing.

Michigan—Sept. 27, at Village Clerks Office, Davison, concrete paving 4.93 mi. FO25-16, C-2, and widening 1.001 mi. MO25-16, C-3, 20 and 40 ft., Genesee Co., for State Hy. Dpt., Lansing.

Michigan—Sept. 28, by R. A. Beers, resident engr., Kalamazoo, concrete or sheet asphalt paving 3.632 mi. MO11-28, C-1, 40 ft., Berrien Co., for State Hy. Dpt., Lansing.

Wisconsin — Sept. 18, by State and St. Croix, Clark and Eau Claire Co. Hy. Comns., 213 South Barstow St., Eau Claire, grading 49,200 cu.yd. State Aid Project 6993, St. Croix Co.—17,500 cu.yd. State Aid Project 6676, Clark Co.—concrete paving 3,200 sq.yd. Federal Aid Project 395-D, Eau Claire Co. W. F. Baumgartner, div. engr.

Wisconsin—Sept. 19, by State and Dodge Co. Hy. Comrs., Madison, grading 19,000 cu.yd. and constructing Beaver Dam Bridge on Federal Aid Project 444-E. A. L. Hambrecht, div. engr.

Iowa — Sept. 18, by State Hy. Comn., Ames, grading, paving 115,300 sq.yd. Road 61, F-304, Dubuque Co.—162,827 sq.yd. Primary Road 10, F-59, Fayette Co.—15,234 sq.yd. Primary Road 79, F-222, Van Buren Co.—108,463 sq.yd. U. S. Road 65, Warren Co.—9,555 sq.yd. Primary Road 2, P-544, and 89,330 sq.yd. Primary Road 2, P-602, both Washington Co. — grading 4,500 cu.yd. Primary Road 11, P-501, Denton Co. R. F. White, hy. comr.

Kan., Smith Center—Sept. 21, by Clerk Smith Co., grading, bridging 5.061 mi. Federal Aid Project 364-C and D, 30 ft. R. D. Hutchins, Court House, engr. Noted July 19.

North Dakota — Sept. 27, by State Hy. Comn., Bismarck, grading 82,536 cu.yd. Federal Aid Project 355-A, Cass Co.; graveling 6.13 mi. Federal Aid Project 246-B, Grand Forks Co. H. C. Frahm, state hy. engr.

Mo., Clayton—Sept. 19, by St. Louis Co., grading, 7 in. rein.-con. paving 28,000 sq.yd. Clayton Rd.—grading, 720 squares macadam paving Sinks Rd.—826 squares macadam paving Vehle Rd. R. Jablonsky, Court House, engr.

Mo., Independence—Sept. 18, by Jackson Co., asphalt paving 39,289 sq.yd. Blue Springs Rd.—concrete paving 12,712 sq.yd. Winner Rd.—38,230 sq.yd. Raytown Rd. and U. S. Hy. 40. Stayton & Veatch, 508 Interstate Bldg., Kansas City, engrs. L. E. Koehler, hy. engr.

Mo., St. Louis—See "Bridges."

Mo., Sikeston—Sept. 17, by P. H. Stevenson, city clk., grading, curbing, concrete paving 9,408 sq.yd. South Kingshighway. $30,000. W. A. Fuller Co., 1912 Ry. Exch. Bldg., St. Louis, engrs. Noted Aug. 30.

Ark., Brinkley—Sept. 20, grading, 2 in. warrenite on 5 in. concrete or 6 in. and 8 in. clay surfacing 72,500 sq.yd. Impvt. Dist. 1. Lund Eng. Co., 527 Home Insurance Bldg., Little Rock, engrs.

Texas—Sept. 18, by G. Gilchrist, state hy. engr., Austin, grading, drainage structures, bridging, disintegrated limestone, gravel, bituminous macadam on crushed stone, bituminous macadam on Caliche and crushed rock bond, pea gravel on gravel surfacing 192.012 mi. hys. in Cass, El Paso, Wilbarger, Shackelford, Fayette, Fort Bend, Starr, Henderson, Nueces, Walker, Zavalla, Jim Wells, Ellis Bee and Throckmorton Counties. $2,183,400.

Tex., Houston—Sept. 20, by Harris Co., concrete paving 7,000 lin.ft. Market St. Rd. $75,000. A. J. Wise, Courthouse, engr.

Tex., Raymondville—Sept. 22, by Willacy Co. Road Dist. 2, c/o A. B. Crane, judge, grading, Bates type concrete, two course limestone rock asphalt on concrete paving 20 mi. roads in Dist. 2. J. E. Johnson, Raymondville, engr.

Tex., San Antonio—Terrell Hills Co., c/o W. Kelley, 149 East Mulberry St., taking bids paving streets in 200 acre sub-division. $75,000. Hare & Hare, Huntzinger Bldg., Kansas City, Mo., engrs.

Okla., Oklahoma City—Sept. 18, by J. W. Berry, clk. Oklahoma Co., grading, concrete paving 14,100 sq.yd. Road 11. $26,000. R. S. James, Court House, co. engr.

New Mexico—Sept. 19, at office W. C. Davidson, hy. engr., Capitol Bldg., Santa Fe, **(F.A.P. means Federal Aid Project)**, constructing 10.055 mi. F.A.P. 127-A, Quay Co.—5.132 mi. F.A.P. 143-B, Dona Ana Co.—4.322 mi. F.A.P. 148-C, Sierra Co.—3.957 mi. F.A.P. 169-A, Luna Co.—also Blanco Bridge over San Juan River, Blanco, San Juan Co.—Gallup-Zuni Bridge, on Gallup-Zuni Rd., McKinley Co., for State Hy. Comn., Santa Fe.

California—Sept. 19, by State Hy. Dpt., Sacramento, grading, asphaltic concrete paving 0.7 mi. Kings Co. C. H. Purcell, state hy. engr.

California—Sept. 26, by State Hy. Dpt., Sacramento, grading 3.9 mi. road between Guatay Creek and Pine Valley, San Diego Co.—grading, asphaltis concrete paving 8.9 mi. road betwen Wasco and Famosa, Kern Co. C. H. Purcell, P. Wks. Bldg., Sacramento, engr.

Calif., Los Angeles — Sept. 24, by Bd. Supervs. Los Angeles Co., grading, 9-7-7-9 in. concrete paving 897,319 sq.ft. Atlantic Ave., $257,818; curbing, guttering, sidewalks, concrete paving 84,434 sq.ft. Industrial Ave., $33,671. G. Jones, 1110 Hall of Records, engr.

Calif., San Diego—Sept. 24, by Common Council, grading, sidewalks, 2 in. asphaltic concrete on 6 in. concrete paving 287,492 sq.ft. Cass and other streets. H. W. Jorgensen, city engr.

Bids Received

Wash., Seattle — Bd. P. Wks., Sept. 7, paving 6th Ave., et al., from George Nelson & Co., 231 Summit Ave., $1,516,974.

Contracts Awarded

Me., Portland — Split redressed granite block paving 5,500 sq.yd. and rein.-con. paving 400 sq.yd. Ocean St., to Monitor Constr. Co., Portland, $32,970.

Vermont — State Hy. Dpt., Montpelier, concrete paving hy. in St. Johnsbury, to Arborio Road Constr. Co., Inc., 525 Main St., Hartford, Conn., $65,752—graveling hy. in Richford, to D. S. McGrath, Inc., Adams, $45,512—Echo Lake Bridge, Plymouth, to Caughy & Pratt Co., Antrim, N. H., $16,049. Grand total $127,673.

Massachusetts — Dpt. P. Wks., State House, Boston, bituminous macadam paving 4,800 ft. hy. in Dartmouth, to Hudson Constr. Co., Grosvenor Bldg., Providence, R. I., $28,559—2,000 ft. Saugus, to T. T. McCarthy, Revere, $15,892—19,949 ft. Ashburnham, to R. H. Newell Co., Uxbridge, $153,138—1,205 ft. and bituminous concrete surfacing 5 ft. bridge in Wilmington, to G. Rotundi & Son, Melrose, $10,309—gravel and bituminous macadam paving 2,100 ft. Millville, to H. Goulet, Blackstone, $8,780—3,050 ft. Petersham, to C. P. Kibbie, Inc., Springfield, $11,724. Grand total $228,402.

Massachusetts — Dpt. P. Wks., State House, Boston, bituminous macadam paving 25,474 ft. hy. in Athol, Phillipston and Templeton, to G. Rosse & Son, Leominster, $178,973—5,600 ft. Needham, to E. L. Miskele, Belmont, $41,991—5,000 ft. Peabody, to T. F. McCarthy, Revere, $20,117—3,300 ft. Andover, to T. J. McCue, 264 North Beacon St., Watertown, $13,089—steel truss bridge, bituminous macadam paving 8,936 ft. hy. in Northampton and Easthampton, to Gleason Bros., 7 Pearl St., Northampton, $155,984—graveling, bituminous macadam paving 5,600 ft. Carlisle, to A. Pallotto, Bridge St., Dracut, $13,435—1,160 ft. West Boylston, to Guaranty Constr. Co., Shirley, $7,063—3,200 ft. Phillipston, to Perini & Ampolini, Plainville, $21,029 — 5,200 ft. Groton, to G. H. Pierce, Groton, $12,133—grading 6,900 ft. Sutton, to J. DeVries, Uxbridge, $25,018—repairing bridge Newton and Weston, to H. F. Herson, Auburndale, $1,695. Grand total $490,527. Noted Aug. 9 and 16.

Mass., New Bedford—Street Dpt., W. P. Hammersley, supt. Streets, bitulithic concrete paving 22,487 sq.ft., to Warren Bros. Co., 38 Charles River Rd., Cambridge. Est. exceeds $25,000. Noted Aug. 2.

Conn., Hartford—Bd. Constr. & Supply, sheet asphalt on concrete paving 13,925 sq. yd. Westbourne Parkway and Ridgefield St., to W. E. Balf Co., 14 Haynes St., $29,185.

N. Y., Brooklyn—J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., sheet asphalt paving Crown St. $10,861; Linden Blvd. $52,807; 30 ft. strip along Jamaica Bay, Canarsie, $14,173—to B. Turecamo Contg. Co., New Cropsey Lane, Avenue M, $7,418—to M. J. Grant, 215 Montague St., granite block paving Grand Ave., $34,481. Grand total $119,740. Noted Sept. 6.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to G. M. Mandatto, 201 Neck Rd., grading East 9th St. $3,602—to Red Line Trucking Co., 54 13th St., grading Linden Blvd. $168,703—to D. J. McCoy Asphalt Corp., Avenue U and East 57th St., sheet asphalt paving East 40th St. $3,709; East 98th St. $20,173; Prospect Park West $21,665; West 5th St. $14,403—to B. Turecamo Contg. Co., New Cropsey Lane, West 5th St. $3,802; center of Stillwell Ave. $85,317 — to Haupert & Specht, granite block paving Flushing Ave. $24,114; West 9th St. $37,707—to W. J. McHale Contg. Co., 1250 Jefferson Ave., bituminous macadam paving Avenue L, $7,303. Grand total $390,498. Noted Aug. 16.

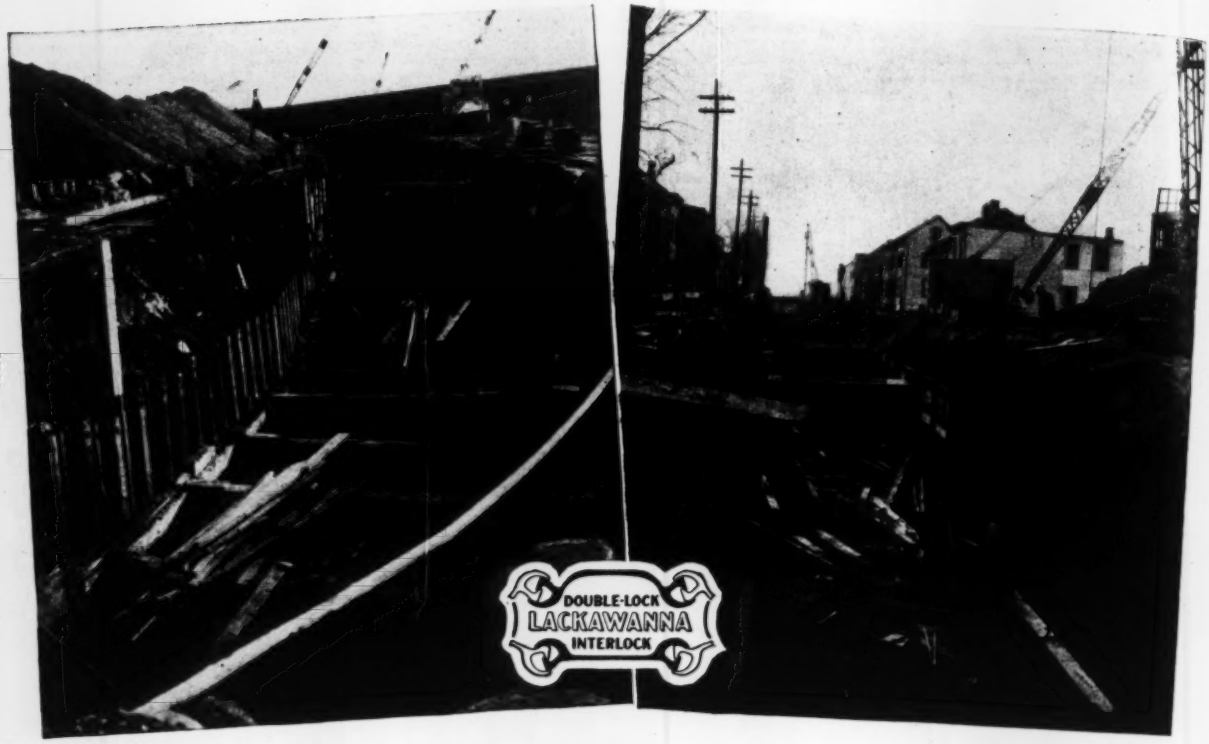
N. Y., Irondequoit — Town Bd. Town Headquarters, 1340 Ridge Rd. E., 2 in. asphalt on 6 in. concrete paving 6,000 sq.yd. Long Acre Rd., to Rochester Willite Co., Exchange Pl., Bldg., Rochester, $39,825. Noted Aug. 9.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., asphalt block on concrete paving East 150th St., to L. DiMinna, 2366 Lorilard Pl., $39,256. Noted July 19.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., sidewalks on 8th Ave., to F. Mascali, 2550 Colden Ave., $137,200—sheet asphalt paving Park Ave., to Remo Eng. Co., 645 East Tremont Ave., $370,218—granite block paving Walker St., to E. T. Barry, $38,285—9th Ave., to Asphalt Constr. Co., 2197 Madison Ave., $74,600. Grand total $620,303. Noted Aug. 2.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading Payson Ave., to T. Di Roma, 33 Evelyn Pl., $27,895—granite block paving 110th St., and sheet asphalt paving 5th Ave., to Asphalt Constr. Co., 2197 Madison Ave., $24,462 and $46,222 respectively—8th Ave.,

Constr. News page 140



Completed sewer ready for back-fill. *Henry W. Horst Company, Contractors, Rock Island, Ill.* **Preparing to drive Steel Sheet Piling at head of job**

This piling helped speed up construction

The rapid construction of Sections 4 and 5 of the Upper Delaware Collecting Sewer, Philadelphia, Pa., presents another example of the advantages of Lackawanna Steel Sheet Piling.

On this job, Lackawanna 14" x 3/8" Arched-Web Piling was used. The rapidity with which the piling was driven and pulled, and the efficient methods devised by the contractors made it easy to keep the excavation in the sheeted trench ahead of the sewer construction.

The compact section and large interlocks of Lackawanna 14" x 3/8" Arched-Web Piling particularly adapt it to rapid, repeated driving and pulling.

Bethlehem Piling Engineers will gladly supply detailed information about Lackawanna Piling Sections and discuss the application of Lackawanna Piling to any project.

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Streets and Roads (Continued)

to Meehan Paving Co., 90 West St., $113,-634—5th Ave., to C. D. Beckwith, Seneca Ave. and Edgewater Rd., $151,630—asphalt block paving Fort Washington Ave., to Regan Towers Co., 124 West 121st St., $67,-678. Grand total $431,521. Noted Sept. 6.

N. Y., New York—Park Bd., W. R. Herrick, pres. Dpt. Parks, Arsenal Bldg., Central Park, repairing asphalt and concrete walks in Central Park, to Valatia Constr. Co., 15 East 40th St., $57,500. Noted Aug. 23.

N. Y., Ossining—L. H. Acker, village clk., Municipal Bldg. improving Emwilton Pl. and Wolden Rd., to Melrose Constr. Co., Inc., 103 East 125th St., New York, $45,-349. Noted July 26.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, grading Richmond Rd., to J. J. O'Rourke, Inc., 238 Gordon St., $109,510; granite block repaving Manor Rd., to J. Johnson's Sons, 455 Bway., West New Brighton, $3,670. Noted Aug. 30.

N. Y., Syracuse — Bd. Contr. & Supply, City Hall, to Rago Bros., Union Bldg., paving West Newell St. $16,576; West Colvin St. $13,625; Robinean Rd. $8,983; Elmhurst Ave. $24,303—to J. H. Gallup, Merhants Bank Bldg., Strathmore Dr. $23,-551; Oswego St. $24,957; 1st North St. $41,789. Grand total $153,704.

New Jersey—State Hy. Comn., Trenton, constructing 4.7 mi. Raritan River Bridge Approach, to Utility Constr. Co., 5 Spring St., New Brunswick, $466,866—paving trolley track in Dunellen, to H. F. Gilligan & Sons, Newark, $34,161—3.5 mi. Monmouth Co., to Jannarone Constr. Co., 225 Passaic St., Belleville, $143,725—3 mi. Camden Co., to A. Stryker, Inc., South Broad St., Trenton, $260,000—and Delancy St., Essex Co., to Elizabeth Paving Co., 715 Elizabeth Ave., Elizabeth, $13,704. Grand total $918,818. Noted Aug. 30 and Sept. 6.

N. J., Guttenburg — Bd. Town Council, Boro Hall, rein.-con. paving Palisade, Hudson and Belleville Aves., Adams, Jackson, Polk, Madison Sts., to Curtin Bros., 45 Madison Ave., $99,308. Noted Sept. 6.

N. J., Hillside (br. Elizabeth)—Twp. Comn., Municipal Bldg., sheet asphalt on 6 in. concrete paving Silver Ave., to Standard Bithulithic Co., foot Brill St., Newark, $25,770. Est. $28,000. Noted Sept. 6.

N. J., Hillside (br. Elizabeth) — Twp. Comn., Municipal Bldg., curbing, 7 in. rein.-con. paving Fairbanks and Looker Sts., to J. F. Chapman & Son, 1439 North Broad St., $32,746. Est. $35,000. Noted Aug. 30.

N. J., Lodi—Boro Council, Boro Hall, grading, paving, McKinley St., to Gerritsen Constr. Co., 40 Sidney St., $25,104; Kipp Ave., to LoProto Constr. Co., Inc., South Main St., Lodi, $40,784.

N. J., Union—Sheet asphalt on concrete paving 11th, 24th, 22nd, Peter and Cantello Sts., to Clinton Asphalt Co., 308 16th St., Union City, $80,121. Noted July 4.

Pennsylvania—State Hy. Comn., Harrisburg, bituminous treated macadam paving 25,731 sq.yd. Bucks Co., to G. I. Thompson Co., Clearfield, $48,673—rein.-con. paving 4,215 sq.yd. Lancaster Co., to Swanger-Fackler Constr. Co., Lancaster, $32,484—55,093 sq.yd. Chester Co., to Dalton Bros., Paoli, $286,356—18,041 sq.yd. Greene Co., to J. F. Stambaugh, Ada, O. $276,923—6,654 sq.yd. Bedford Co., to J. E. Penrod & Co., Johnstown, $42,881—12,500 sq.yd. Northumberland Co., to L. R. Mathieu, 1824 Union Ave., Altoona, $94,445—4,714 sq.yd. Lawrence Co., to Woods & Golder Constr. Co., 212 Mechanic St., New Castle, $20,345. Grand total $802,107. Noted July 26.

Pennsylvania—State Hy. Comn., Harrisburg, bituminous treated macadam paving 21,954 sq.yd. Franklin Co., to Bester-Long Co., Hagerstown, $43,129—rein.-con. paving 42,616 sq.yd. Lancaster Co., to Continental Constr. Co., Knickerbocker Bldg., Baltimore, Md., $143,446—20,557 sq.yd. Allegheny Co., to D. W. Challis & Sons, Inc., Sewickley, $90,749—44,311 sq.yd. Jefferson Co., to G. B. Walther, Inc., 1001 Lime Trust Bldg., Lima, O. $171,537—16,289 sq.yd. Montgomery Co., to Union Paving Co., 123 South 21st St., Phila., $65,571—7,841 sq.yd. Chester Co., to W. R. Wolfinger, Norristown, $48,821—2,775 sq.yd. Indiana Co., to A. F. Moreau, Indiana, $12,273—16,681 sq.yd. Schuylkill Co., to J. M. Eshleman, Landisville, $110,399—34,102 sq.yd. Perry Co., to J. S. Teeter, Taneytown, $167,432—12,908 sq.yd. Armstrong Co., to Rinehart Bros., East Liverpool, O. $57,054. Grand total $910,411. Noted July 12.

Pennsylvania—State Hy. Comn., Harrisburg, rein.-con. paving 1.719 mi. Project 227-F, Lebanon Co., to W. Grant Raub, Red Lion, $92,971—3.584 mi. Project 234-C, Westmoreland Co., to E. H. Canon, 4079 Jenkins Arcade Bldg., Pittsburgh, $183,-663—1.07 mi. Project 249-D, Somerset Co., to M. F. McCabe Co., Salisbury, $47,007. Grand total $322,801.

Pennsylvania—State Hy. Comn., Harrisburg, grading 27,501 cu.yd. Washington Co., to Irwin Nelan Co., Washington $64,878—concrete paving 27,400 sq.yd. McKean Co., to F. D. Ross, Bradford $112,994—22,700 sq.yd. Westmoreland Co., to Rankin Constr. Co., Uniontown $102,769—24,100 sq.yd. Venango Co., to Hagedorn Constr. Co. of West Virginia, Seward $81,380—30,000 sq.yd. Venango Co., to L. B. Metz Co., Erie $117,676—25,000 sq.yd. Indiana Co., to M. Bennett & Sons, Indiana $121,050—5,400 sq.yd. Lancaster Co., to Continental Constr. Co., Knickerbocker Bldg., Baltimore, Md. $26,904. Grand total $627,651. Notec Aug. 23.

North Carolina—State Hy. Dpt., Raleigh, to Porter Constr. Co., Dothan, Ala., grading, concrete paving 5.29 mi. Mecklenburg Co., $133,788; 8.71 mi. Gaston Co., $215,-019—to Powell Paving Co., Winston-Salem, 6.8 mi. Forsyth Co., $132,212—to Belote Constr. Co., Asheville, 8.41 mi. Catawba Co., $159,546—to Highway Eng. & Constr. Co., Selbyville, Del., 3.05 mi. Alamance Co., $63,351; grading, sand asphaltic paving 10 mi. Bladen Co., $129,762—to Ziegler Bros., Greensboro, concrete paving 9.34 mi. Craven Co., $190,811—to Roberts Paving Co., Salisbury, Md., 9.12 mi. Bertie Co., $179,-416—to R. G. Lassiter & Co., Citizen Bank Bldg., Raleigh, 18.3 mi. Duplin Co., $299,-311; 7.96 mi. Hertford Co., $149,235; grading, sand asphalt paving 5.95 mi. Cumberland Co., $77,806—to West Constr. Co., Volunteer Life Bldg., Chattanooga, Tenn., 13.57 mi. New Hanover Co., $191,752—to C. B. Hester, Greensboro, grading, topsoiling 4.96 mi. Orange Co., $36,560—to Welker Bros., Greensboro, 6.41 mi. Randolph Co., $26,830—to C. E. Hill & Son, Apex, 8.7 mi. Montgomery Co., $25,641—to Beal Bros., Bear Creek, 6.15 mi. Project 451, Lee Co., $29,561—to C. A. Ragland, Louisburg, grading, gravel surfacing 10.32 mi. Hertford Co., $39,000 — to F. J. McGuire, Bankers Trust Bldg., Norfolk, Va., grading 17.81 mi. Tyrrell Co., $123,041—to Calking Dredging Co., Inc., 100 Royster Bldg., Norfolk, Va., building roadway through deep swamp by hydraulic dredging New Hanover Co., $81,889. Grand total $2,284,531. Noted Aug. 23.

Georgia — tate Hy. Bd., East Point, Trinidad macadam surfacing 15.704 mi. hy. in Turner and Crisp Counties, to J. R. Cothran, Candler Bldg., Atlanta, $208,259.

Kentucky — State Hy. Dpt., Frankfort, rein.-con. surfacing 0.281 mi. roads in Carter Co., to F. M. Gearhart, Clive Hill, $9,448—crushed stone dumped on 9.186 mi. Crittenden Co., to Bradley Stevens Co., Beaver Dam, $21,250—traffic bound macadam paving 7.959 mi. Grayson Co., and 7.569 mi. Hardin Co., to Perkins, Darnell & Williams, Hodgenville, $32,285 and $22,666 respectively—19.047 mi. Jackson and Madison Counties, to Mason Constr. Co., West Point, $97,569—36.928 mi. Pendleton and Campbell Counties, to E. K. Newell & Co., Mayesville, $36.928—bituminous macadam surfacing 2.9 mi. Pendleton and Plymouth Counties, to G. Miller, Visalia, $76,945—grading 5.319 mi. Harlan Co. and 10.015 mi. Letcher Co., to H. H. Miller Constr. Co., Jackson, $184,851 and $145,613 respectively—3.667 mi. Meade Co., to Ellis, Kelly & Co., Owensboro, $17,186—6.268 mi. Monroe Co., to H. L. Johnson, Lewisport, $45,908—11.458 mi. Muhlenberg Co., to Corum Bros., Madisonville, $111,647. Grand total $802,-296. Noted Aug. 9 and 16.

Ohio—H. J. Kirk, dir. Hys., Columbus, grading, concrete paving 6.123 mi. Miami Co., to W. L. Johnson Co., Hicksville, $188,706—3.109 mi. Portage Co., to G. S. Mellert-Weidner Co., Medina, $72,375—5.922 mi. Pickaway Co., to Clements-Orr Co., Mt. Gilead, $159,136—bituminous macadam paving 0.5894 mi. Champaign Co., to G. W. Studebaker, Greenville, $26,287—1.402 mi. Seneca Co., to Lee Bros. & Petticors, Clyde, $30,055—2.99 mi. Franklin Co., to N. B. Putnam, Columbus, $142,010—4.312 mi. Franklin Co., to J. M. Snouffer, Dublin, $80,517. Grand total $699,386. Noted Aug. 23.

Ohio — H. J. Kirk, dir. Hys., Columbus, concrete paving 6.03 mi. Butler and Hamilton Counties, to Bigler Paving Co., Middletown, $170,392—7.049 mi. Medina Co., to A. J. Baltes, Norwalk, $54,767—0.316 mi. Wood Co., to D. C. Ingold, McComb, $7,046—4.351 mi. Wood Co., to P. B. Putnam, Columbus, $135,646—1.623 mi. Crawford Co., to D. Kissling, Bucyrus, $20,026—2.535 mi. Fulton Co., to J. A. Elder, Bryan, $66,863—6.18 mi. Montgomery Co., to Wilmore Paving Co., Middletown, $51,999—grading, drainage structures 6.637 mi. Licking Co., to Hickey Bros., Cincinnati, $113,011—2.604 mi. Montgomery Co., to H. R. Gandle Co., Leesburg, $17,439—sheet asphalt resurfacing 0.635 mi. Medina Co., to Federal Asphalt Paving Co., Hamilton, $15,453—concrete paving 2.443 mi. and grading, concrete curbing, concrete resurfacing Medina Co., to G. S. Mellert-Weidner Co., Medina, $52,796 and $17,925 respectively—grading, concrete paving 1.175 mi. Crawford Co., to C. C. Morrow, Cresline, $14,995—4.699 mi. Erie Co., to Homberger-Wager Co., Sandusky, $107,700. Grand total $846,058.

Indiana—J. D. Williams, dir. State Hy. Dpt., Indianapolis, concrete paving 9.611 mi. Miami and Wabash Counties, to J. C. O'Connor & Son, Ft. Wayne, $246,974—6.964 mi. Elkhart and Kosciusko Counties, to Bergen & Bergen, Franklin, $123,274—7.959 mi. Elkhart Co., to Hinsey & Dull, Portland, $131,844—12.859 mi. Cass and Miami Counties, to McCoun Constr. Co., Noblesville, $267,474 — 7.021 mi. Porter and Laporte Counties, to Wabash Constr. Co., Vincennes, $154,916—7.684 mi. Lake and Porter Counties, to Calumet Paving Co., Gary, $169,122. Grand total $1,093,604.

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, to A. J. Parrish, Paris, paving 0.59 mi. Edgar Co. $4,885—to McCarthy Impvt. Co., Kahl Bldg., Davenport, Ia., 0.72 mi. Schuyler Co. $32,712—to Johnson Constr. Co., 7 South Dearborn St., Chicago, 2.72 mi. Fayette Co. $60,120—to Starr Constr. Co., Rockford, 0.98 mi. Winnebago Co. $1,390—to J. Mackler Co., 1430 Halsted St., Chicago, 0.27 mi. Route 4, Sect. 430-X, $7,202; 0.48 mi. Route 55, Sect. 551-X, Cook Co. $32,045—to Hurden Constr. Co., Jensen Bldg., Springfield, 0.33 mi. Kendall Co. $9,498—to Arcole Constr. Co., Niles Center, 10.31 mi. Cook and Lake Counties $557,203—to Cameron, Joyce & Co., Keokuk, Ia., 5.04 mi. Cass Co. $99,-757; 6.98 mi. Hancock Co. $147,079—to M. R. Homer Constr. Co., Omaha, Neb., 1.88 mi. Morgan Co. $37,531; 9.95 mi. McHenry Co. $181,035; 6.16 mi. Lake Co. $141,869—to M. Hays & Sons Co., Chicago, 3.13 mi. Henderson Co. $89,392—to L. B. Dyer Constr. Co., Hoopeston, 0.24 mi. Hancock Co. $4,938—to Madison Constr. Co., Edwardsville, 6.23 mi. Pike Co. $150,000—to C. E. Glertz & Sons Co., Elgin, 7.64 mi. Cook and Kane Counties $133,065—to Jansen & Schaefer, Pekin, 5.01 mi. McLean Co. $118,266—to Moore Bros. Constr. Co., East St. Louis, 8.04 mi. Madison and St. Clair Counties, also 2 rein.-con. bridges and 1 rein.-con. box culvert, $197,831; 10.78 mi. Randolph Co., also 1 rein.-con. and 1 steel bridges $296,147—to Hartman-Clark Bros. Co., 920 Peoria Life Bldg., Peoria, 1.9 mi. Fulton Co. $47,799—to Midwest Eng. Co., Mt. Vernon, 2.58 mi. Randolph and Perry Counties, $73,122—to J. C. O'Connor & Sons, Ft. Wayne, Ind., 20.98 mi. Shelby and Moultrie Counties $408,800—to Anderson & Empie, Marshalltown, Ia., 13.55 mi. Carroll and Jo Daviess Counties $250,158—to Central Eng. Co., 809 Putnam Bldg., Davenport, Ia., 4.53 mi. Henry Co. $86,388—to Feiner & Luick, St. Louis, Mo., grading 6.63 mi. Cass and Morgan Counties $74,748—to Edwardsville Constr. Co., Edwardsville, 0.17 mi. St. Clair Co. $8,353—to Bingham, Rune & Co., Chicago, 0.39 mi. Cook Co. $23,020—to J. L. Wells Co., Inc., Rock Island, 4.9 mi. Henry Co. $52,768—to C. Fenner, St. Louis, Mo., 10.47 mi. Pike Co. $64,357. Grand total $3,391,478.

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, paving Shelby and Effingham Counties, to C. J. Moritz, Inc., Effingham, $199,129 and $126,397 respectively—Iroquois Co., to E. J. Tegge Constr. Co., Papineau, $123,423—Iroquois Co., to Wabash Constr. Co., Vincennes, Ind., $88,-911—Cook and Will Counties, to Powers Thompson Constr. Co., Joliet, $172,210—Peoria Co., to Specht & O'Neil, Bushnell, $4,246—Livingston and Ford Counties, to McMahon Constr. Co., Rochester, Ind., $153,960—Iroquois Co., to E. M. Melehan Constr. Co., Algonquin, $154,996—Cook Co., to Arcole Constr. Co., Niles Center, $10,-821—DeKalb Co., to Stevens Bros., Endicott Bldg., St. Paul, Minn., $249,263—Knox and Henry Counties, to Central Eng. Co., 809 Putnam Bldg., Davenport, Ia., $158,091—Hancock Co., to S. J. Groves & Sons, 306 Globe Bldg., Minneapolis, Minn., $74,780—Hancock Co., to Jansen & Schaefer, Pekin, $18,251—Alexander and Pulaski Counties, to Mitchell Constr. Co., Marion, $53,850—grading Ogle Co., to Belmat & Sons Constr. Co., Clear Lake, Ia., $149,190—Hancock Co., to C. I. Jones, St. Louis, Mo., $32,533—Alexander Co., to Cameron, Joyce Steam Shovel Co., Keokuk, Ia., $33,297—Effingham Co., to Cameron, Joyce & Co., Keokuk, $55,-970—Stephenson Co., to Balmat & Sons, Clear Lake, Ia., $178,266. Grand total $2,-037, 584. Noted May 30, June 7 and July 5.

Wisconsin — State Hy. Comn., Madison, crushed stone surfacing 8.15 mi. Vernon Co., to Meyers & Groth, Platteville $26,-177—concrete paving 6.268 mi. Shawano Co., to Universal Eng. Co., Medford $191,-380—3.203 mi. Milwaukee Co., to Reisinger Co., 466 Oakland Ave., Milwaukee $56,073. Grand total $273,630.

Wisconsin—State Hy. Comn., Stephenson Bldg., Milwaukee, concrete paving 2.5 mi. Project 268-B, Waukesha Co., to Lex

Constr. News page 141

Streets and Roads (Continued)

Constr. Co., 446 68th Ave., West Allis, $62,260—3.7286 mi. Project 2702 and Federal Aid Project 439-B, Racine Co., to Kramp Constr. Co., Berlin, $127,016 and $138,703 respectively—crushed rock surfacing 1,700 cu.yd. Argyle-Monroe Rd., to Splinter & Menehan, Argyle, $3,060—Bean Brook Bridge, to H. S. Kaliher, Washburn, $5,867—Green Bridge, on Project 5141, Monroe Co., to M. Schroeder, Cashton, $6,000—Sailor Creek Bridge, on Project 7816, Price Co., to R. W. Ohls, Ladysmith, $8,902. Grand total $351,808.

Wis., Bloomer—Grading, rein.-con. paving 18,000 yd., to A. Larson Co., Eau Claire, $42,982.

Wis., Milwaukee—Dpt. P. Wks., R. E. Stoelting, comr., to Czerwinski Constr. Co., 816 Clinton St., improving McKinley Ave. $3,024; Oklahoma Ave. $21,420; 24th Ave. $4,080—to A. J. Koch, 1297 Cramer St., 61st St. $3,202—to Wisconsin Asphalt Paving Co., 123 Wisconsin Ave., Cedar St. $61,790; Howell Ave. $35,550—to Badger Constr. Co., 97 East Wisconsin Ave., Lincoln Ave., $17,713; 7th St. $7,607. Grand total $154,386.

Wis., Milwaukee — Milwaukee Co. Hy. Comn., W. C. Cavanaugh, comr., improving Layton Ave. A, to Kroening Constr. Co., 39th Ave. and Mitchell St., $64,901—Menomonee River Parkway, to White Constr. Co., 68 East Wisconsin Ave. $73,008—Menomonee River Bridge, to Dick & Blake-Constr. Co., 4608 Lisbon Ave. $8,005. Grand total $145,914. Noted Sept. 6.

Ia., Cresco—Howard Co., 6 in. concrete paving 21.7 mi. Roads 9 and 59, to Metz Constr. Co., Springfield, Neb., $526,000.

Kan., Hutchinson — Reno Co., grading, concrete paving 2.851 mi. Project 50S-21-Federal Aid 399-B, and 4.463 mi. Project 50S-21-Federal Aid 399-C, to Whitney & Teeter, Hutchinson, $58,251 and $92,515 respectively. Noted Aug. 9.

Missouri—State Hy. Comn., Jefferson City, grading 4.372 mi. Project 301-C, Monroe Co., to Graham Bros., Leeds $27,017—concrete paving 1.135 mi. Project 211-C, Stoddard Co., to C. E. Hamilton, Carbondale, Ill., $18,604 7.899 mi. Project 248-A and B, Crawford Co., to Kass Constr. Co., 2818 5th Ave., Des Moines, Ia., $118,206. Grand total $163,827.

Missouri — State Hy. Comn., Jefferson City, grading 6.95, mi. Project 301-A and B, Randolph Co., to M. Haase, St. Joseph, $42,905.

Mo., St. Joseph—Paving 16th and 27th Sts., to Sayles Constr. Co., 1814 Highly St. $14,103 — asphaltic concrete resurfacing Patee and Mary Sts., to Land Constr. Co., Corby Bldg. $6,217—paving 2 alleys, to P. P. Young, 4209 St. Joseph Ave. $3,196—1 alley, to Bridgeford Constr. Co., St. Joseph $2,110—18th, 6th and 5th Aves., to Judson Eng. & Constr. Co., 1811 Faraon St. $8,009. Grand total $33,635.

Mo., St. Louis — Bd. P. Serv., City Hall, rein.-con. paving 11,000 sq.yd. Arsenal St. and paving alley in City Block 5358, to Joseph Kesl & Sons, Title Guaranty Bldg., $30,358 and $2,550 respectively—rein.-con. paving 1,740 sq.yd. Bamberger St. and paving 3 alleys, to Eyermann Constr. Co., 1210 South Grand Blvd., $8,247 and $6,816 respectively — vibrolithic concrete paving 1,560 sq.yd. Veronica Ave. and paving Alley 5447, to Skrainka Constr. Co., Security Bldg., $7,325 and $4,195 respectively—asphalt paving 2,735 sq.yd. Blair Ave., to Trinidad Asphalt Mfg. Co., 600 South Theresa Ave. $20,194—4,130 sq.yd. Compton Ave. and 3,090 sq.yd. Macklind Blvd., to Bridges Asphalt Paving Co., 1470 Kentucky St. $19,618 and $18,563 respectively—concrete paving Alley 3555-A, to W. A. Riley, 110 North 7th St. $715—paving 7 alleys, to Alfred Lewald, Inc., 6025 West Cabanne Ave., $25,100. Grand total $143,681. Noted Aug. 23.

Tex., Houston—For 3 in. vitr. brick on 8 in. concrete paving 23,700 sq.yd., to S. Shambaugh, 1401 Dowling St., $115,766. Est. $95,000. Noted Sept. 6.

Okla., Oklahoma City—To Western Paving Co., Petroleum Bldg., grading, sheet asphalt paving 6,200 sq.yd. 34th and 35th Sts. $23,197, est. $25,000; 6,400 sq.yd. Youngs Blvd., $26,861, est. $28,100; 6,860 sq.yd. Robinson St. $26,166, est. $28,000—to M. A. Swatek & Co., 519½ West Main St., concrete paving 5,800 sq.ft. 6th St. $24,023, est. $26,600. Grand total $100,247. Noted Aug. 29.

Okla., Wewoka—Grading, concrete paving 20,600 sq.yd. Plum, Sycamore, Church, Cherry, Peach and Hickory Sts., to Hansen & Pearce, Perrine Bldg., Oklahoma City, $71,462. Est. $73,000.

Utah—State Hy. Comn., H. H. Blood, chn. Salt Lake City, grading, concrete paving 3.828 mi. Federal Aid Project 84-A, Cache Co., to Christenson & Jacobs & Gardner, Salt Lake City, $94,319.

Constr. News page 142

Nevada—State Hy. Comn., Carson City, grading, crushed stone surfacing 12.2 mi. State Hy., White Pine Co., 20 ft., to J. N. Tedford, Fallon, $74,559. Est. $74,320.

Nevada—State Hy. Comn., Carson City, graveling 25.93 mi. Humbold and Lander Counties, to Nevada Rock & Sand Co., Reno, $59,856.

Arizona — State Hy. Comn., Phoenix, select material surfacing 2.4 mi. Project 89-B, Coconing Co., to Whiting Bros., Tanner & Packard, St. Johns, $34,798.

Washington—State Hy. Comn., Olympia, concrete paving 3.62 mi. Project 163, Douglass Co., to United Contg. Co., North West Bank Bldg., Portland, Ore., $112,470.

Oregon—State Hy. Comn., Salem, broken stone surfacing 17.24 mi. Linn Co., to J. J. Dann, 500 North Front St., Portland, $104,973.

Calif., Inglewood — O. H. Duelke, city clk., grading, curbing, guttering, 6 in. vibrolithic concrete paving A. and I. 2, Prairie Ave., to J. L. McClain, 3452 Slauson Ave., Los Angeles, $135,265. Noted Aug. 30.

Calif., Los Angeles—Grading, 6 in. concrete paving 575,740 sq.ft. Burbank Blvd., to G. H. Oswald, 366 East 58th St., $174,170. Est. $197,615.

Ont., Toronto—W. D. Annis, city clk., 1 Birchcliffe Ave., asphalt on concrete paving Madison Ave., to Godson Contg. Co., 203 Richmond St. W., $16,817—asphaltic concrete surfacing Jones Ave., to city by day labor, $17,546—brick block on concrete paving Indian Rd., to Grant Contg. Co., 47 Adelaide St. E., $6,599—concrete paving lane near Lippincott St., to Mitchell Contg. Co., 28 Moore Ave., $1,461—lane near Grange Ave., to L. P. Acri, 28 Grove St. Noted Aug. 9.

Public Bond Elections

Coming Bond Elections

Waterworks — Denison, Ia., Sept. 18, $20,000.
Sewers—Cleveland, O., Nov. 6, $1,750,000.
Irrigation System—Bent County, Colo., Sept. 29, $600,000.
Breakwater and Yacht Harbor — Santa Monica, Calif., $3,500,000.
Paving—Cleveland, O., Nov. 6, $1,000,000.
Roads—Ardmore, Okla. Oct. 2, $500,000.
School—Lebanon, O., Nov. 6, $250,000.
Schools—Louisville, Ky., Nov. 6, $3,000,000.
High School—Excelsior Springs, Mo., Oct. 23, $200,000.
Lighting System — Cleveland, O., Nov. 6, $300,000.
Stadium—Cleveland, O., Nov. 6, $2,500,000.
Airport—San Jose, Calif., $400,000.

Bonds Voted

Waterworks—Pyote, Tex., $95,000.
Waterworks—Calhan, Colo., $25,000.
Sewers and Drainage — Houston, Tex., $400,000.
Sewers—Pyote, Tex., $53,000.
Sewers—Miles City, Mont., $160,000. Burns & McDonnell Eng. Co., Kansas City, Mo., Engrs.
Sewers—Berkeley, Calif., $500,000.
Paving and Sewers—Elizabethtown, Tenn., $225,000.
Street Improvement — Houston, Tex., $2,550,000.
Paving—Lockart, Tex., $100,000.
Roads—Wharton, Tex., $500,000.

Bonds Defeated

Roads—Guthrie, Okla., $30,000.
Filtration Plant, etc.—Sacramento, Calif., $688,000.
Fire Alarm and Police System—Sacramento, Calif., $305,200.

Buildings—Industrial

Proposed Work

Vt., Burlington—BAKERY—Fraser Baking Co., 50 Cherry St., sketches by McCormick Co., archts., 41 Park Row, New York, 1 story, 95 x 145 ft., brick, steel Cherry St., recently destroyed by fire. $40,000.

N. Y., Brooklyn — LABORATORY — Brooklyn Union Gas Co., 176 Remsen St., plans by Bartlett-Hayward Co., 200 Scott St., Baltimore, Md., 35x75 ft. laboratory, Gardner Ave. and Withers St. $60,000.

N. Y., Brooklyn—SERVICE GARAGE—Marion Reid Garage & Gas Station, Inc., L. Rosenburg, pres., 391 Fulton St., plans by Kleirnert & Klie, 250 Park Ave., New York, 2 story, 100 x 159 ft., brick, concrete, Atlantic and Brooklyn Aves. $100,000.

N. Y., Buffalo—STEEL MILL—Bliss & McLaulin, Inc., Harvey, Ill., 1 story, brick, steel mill. $1,000,000. H. Carpenter, Buffalo, engr.

N. Y., New York—ICE HOUSE, GARAGE and BATHHOUSE—A. J. Schwarzler, 368 East 167th St., plans by C. Schaefer, Jr., 332 East 149th St., 3 and 4 story, 125 x 138 ft., brick, concrete Devoe and 174th Sts. $150,000.

N. J., Asbury Park—MILK DISTRIBUTING PLANT—Alderney Dairy Co., 26 Bridge St., Newark, plans by W. F. Lehman, 972 Broad St., Newark, 1 story, basement, 65 x 100 ft., brick, steel, plain found., Drummond Ave. $40,000. Noted Sept. 6.

N. J., Jersey City — PLANT — Armour Packing Co., 120 Bway., New York, 3 story, rein.-con., 113 x 170 ft. site, 7th St. between Coles and Monmouth Sts. $1,000,000. Private plans.

Fla., Avon Park—COLD STORAGE and ICE PLANT—Florida P. Serv. Co. cold storage and ice plant. $150,000.

Fla., Jacksonville—PLANT DEVELOPMENT—Asiatic Petroleum Co., 65 Bway., New York, plant development at Phoenix Park property. $1,000,000.

Miss., McComb — FACTORY — Tuf Nut Garment Mfg. Co., 312 Rock St., Little Rock, Ark., and McComb, Miss., D. B. Edwards, mgr., 3 story, brick, rein.-con. $150,000.

O., East Liverpool — FACTORY — H. Walker, mgr., Woodbine Laundry Co., Penna. Ave. and Central St. soon takes bids 1 story, 50 x 150 ft., brick, Penna. Ave. and Central St. $40,000.

Mich., Lansing—FACTORY—Olds Motor Wks., 1101 Division St., 2 story, 130 x 460 ft., rein.-con., brick, steel addition, plain found. $350,000. Austin Co., General Motors Bldg., Detroit, engrs.

Ia., Sioux City—COLD STORAGE—Cudahy Packing Co., A. F. Mills, supt., soon takes bids 4 story, 50 x 146 ft. brick, rein.-con. cold storage at Stock Yards, also changing sewers, water lines, wrecking old buildings. $200,000. Private plans.

Minn., Blue Earth—ICE CREAM PLANT—Schwen Ice Cream & Candy Co., soon takes bids 2 story, rein.-con., brick plant. $40,000. C. A. Berger, 401 Phoenix Bldg., Minneapolis, archt.

Tex., Beaumont—PUBLISHING PLANT—Beaumont Enterprise & Journal, 441 Mulberry St., and J. Maples, Beaumont soon let contract 3 story, 60 x 124 ft., brick, steel, cast stone. $175,000. Howell & Thomas, 3868 Carnegie St., Cleveland, O., archts.

Okla., Tulsa—SHOPS—See "Unclassified."

Colo., Denver — LITHOGRAPHING and PRINTING—Rocky Mountain Bank Note Co., B. F. Scribner, 120 West 3rd St., Pueblo, lithographing, printing and affiliated business building, Speer Blvd. $100,000.

Calif., Emeryville — MANUFACTURING — Western Electric Co., 680 Folsom St., San Francisco, 5 story, rein.-con. $500,000. Private plans.

Calif., San Leandro—PLANT—Chrysler Co., Highland Park, Detroit, Mich., assembly plant, Durant Ave. and East 14th St. $1,000,000 or more.

Calif., South San Francisco—PLANT—Marchetti Motor Patents, Inc., Russ Bldg., San Francisco, motor plant building, 28,000 sq.ft. floor space, airplane plant, 69,000 sq.ft. floor space, Bayshore Hy. $300,000. A. W. Ryder, Russ Bldg., San Francisco, engr.

Bids Desired

Mass., Chelsea (br. Boston)—FACTORY—Panco Rubber Co., F. Bernstein, pres., 31 Highland St., taking bids 2 story, 90 x 100 ft., brick, timber, addition, concrete found., Highland St. Noted July 5.

Mass., Lynn — NEWSPAPER DISTRIBUTING STATION — North Shore News, R. S. Bauer, pres., 52 Exchange St., taking bids 2 story, 65 x 105 ft., rein.-con., brick, steel addition, plain found., Exchange St. $40,000. Sanborn & Weed, Item Bldg., archts. Noted Aug. 23.

N. Y., New York—SERVICE—Sept. 28, by S. W. Wynne, pres. Bd. Health, Dpt. Health, 505 Pearl St., altering service building, Willard Parker Hospital, foot East 16th St.

N. J., Orange — FACTORY — Mead-Suydan Co., 400 Sheridan St., taking bids general contract 1 story, basement, brick, steel, plain found., Sheridan St. $40,000. A. P. Fucciarone, 206 Central Ave., archt. Noted Aug. 23.

O., Sandusky—FACTORY—Ban Rubber Products Co. taking bids rebuilding 2 story, basement, recently destroyed by fire. $50,000.

Ind., Indianapolis—MACHINE SHOP and GARAGE—E. E. Sims, 605 State Life Bldg., taking bids 1 story, 60 x 195 ft., brick, steel, 1617 East Washington St. $47,000. McGuire & Shook, North Meridian St., archts.

Buildings—Industrial (Continued)

Ind., Kendallville—TURBINE HOUSE—See "Waterworks."

Mo., Stanberry—POWER PLANT—See "Unclassified."

Texas and Oklahoma—GAS COMPRESSOR STATION—Cities Serv. Gas Co., 60 Wall St., New York, taking bids 5,000 hp. gas compressor station at Higgins, Tex., $100,000; improving, enlargirg plants at Mooreland, Okla. and Pampa, Tex., $75,000. Private plans.

Okla., Sand Springs—MILL—See "Contracts Awarded."

Contracts Awarded

Mass., Worcester — LAUNDRY — Hovey Laundry Co., 41 Austin St., 4 story, basement, 60 x 80 ft., brick, terra cotta, laundry and office building, to J. Miles & Son, 25 Foster St. Est. $50,000. Noted Aug. 23.

Conn., Bristol—FACTORY—E. Ingram Co., 592 North Main St., 5 story, 50 x 162 ft., brick, timber, to Torrington Building Co., 182 Church St., Torrington. Est. $100,000. Noted Aug. 23.

Conn., Hartford—BRASS FOUNDRY—M. S. Little Mfg. Co., 151 New Park Ave., 1 story, 50 x 120 ft., brick, steel, concrete, to Bartlett-Brainard Co., 252 Asylum St. Est. $40,000. Noted Aug. 23.

N. Y., Long Island City — HOUSING STATION — B. M. Patten, pres. Queens Boro, Queens Subway Bldg., housing station, Betts Ave., Laurel Hill, to Lane ogle, Inc., 9 Park Pl., New York, $61,600. Noted Aug. 9.

N. Y., Oswego — FACTORY — Oswego Candy Wks., 275 West 1st St., 3 story addition, to Peter Raby Contg. Co., 3rd Ave. Est. $75,000.

N. J., Elizabeth—MILL—Poggi & Bragdon, archts., 275 Morris Ave., general contract altering 2 story, basement, 70 x 200 ft., brick, steel, rein.-con., plain found., to C. D. Nanamaker, 45 West 42nd St., New York, for Hitchings & Co., 71 Spring St. Est. $150,000. Noted Aug. 16.

N. J., Orange—MILK DISTRIBUTION PLANT—Newark Milk & Cream Co., c/o W. E. Lehman, archt., 972 Broad St., Newark, general contract 1 story, basement, 50 x 400 ft., brick, steel, plain found., to Fatzler Co., 676 South 16th St., Newark. Est. $75,000. Noted Aug. 23.

Pa., Phila. — MACHINE — Philadelphia Coke Co., 4501 Richmond St., 1 story, 42 x 93 ft., brick, steel, plain found., 4501 Richmond Ave., to Koppers Constr. Co., Union Trust Bldg., Pittsburgh.

Ky., Louisville — AUTOMOBILE BODY FACTORY—Mengel Body Co., 4th and G Sts., general contract part 2 story, basement, main building 306 x 441 ft., 1 very high story, basement under part, 40 x 614 ft. loading dock, various sized warehouses and storage space, all covering 4 acre space, 4th and G Sts., to Struck Constr. Co., 149 North Clay St., $600,000. Est. $1,000,000.

O., Cincinnati — FACTORY — Tennessee Copper Corp., Skillman Rd., 1 story, 208 x 420 ft., rein.-con., plain found., Skillman St., to Ferro Constr. Co., Elm St., $500,000.

O., Dayton—GARAGE and AUTO REPAIR SHOP—Four Hundred Seventy-Six Co., 2nd and St. Clair Sts., 2 story, brick, concrete, plain found., to H. R. Blagg Co., 1229 East 3rd St., $56,000. Noted July 5.

Ind., Indianapolis—FACTORY—Diamond Chain Co., Kentucky Ave. and South St., general contract 1 story, 40 x 100 ft., and 4 story, 60 x 160 ft., rein.-con., brick, steel, to Hall Constr. Co., 406 Bd. of Trade Bldg. Est. $100,000.

Mich., Pleasant Ridge (Royal Oak P.O.)—BAKERY—Boettcher Baking Co., Pleasant Ridge and R. F. D. 3, Pontiac, 1 story, basement, 90 x 250 ft., rein.-con., brick, steel, plain found., Ten Mile Rd., to M. Bortholomaeil Son & Co., 1574 East Warren Ave. Est. $95,000. Noted Aug. 30.

Ill., Carmi—FACTORY—Carmi Mfg. Co., 2 story, 76 x 173 ft. brick, steel, to Bender Bros., Carmi; plumbing and heating, to Tri State Heating Co., 1131 Indiana Ave., Evansville, Ind. Est. $57,000.

Ill., Chicago—FACTORY—A. S. Alschuler, archt., 28 East Jackson Blvd., 2 story, 86 x 125 ft., face brick, cut stone terra cotta, Logan Blvd. and Holly St., masonry, carpentry and cut stone contract, to Morris Handler, 2718 West Chicago Ave.; terra cotta, to Amer. Terra Cotta Co., 228 North La Salle St.; steel sash, to Campbell Metal Window Corp., 228 North La Salle St., for Chicago Printed String Co., 2411 Clybourn Ave.

Ill., Chicago — FACTORY — Budlong Pickle Co., 100 West North Ave., masonry and carpentry contract 1 story, 144 x 163 ft., brick, 1838 Marcey St., to H. B. Barnard, 140 South Dearborn St. Est. $75,000.

Ia., Sioux City — PACKING PLANT — Sioux City Stock Yards Co., G. F. Silkbittel, pres., 250 x 330 ft. plant 26 ft. high, rein.-con. addition, to W. A. Klinger, Inc., Warnock Bldg. Est. $210,000. Noted June 7.

Mo., St. Louis—PAINT FACTORY and WAREHOUSE—Con-Ferro Paint & Varnish Co., I. Koplar, secy., 118 South Main St., 1 story, 40 x 200 ft., and 3 story, 60 x 100 ft., rein.-con., brick, 3200 North Bway., to N. M. Kaplan, 806 Chestnut St. Est. $100,000.

Mo., St. Louis—POWER PLANT—A. Leschen & Sons Rope Co., 5909 Kennerly Ave., 1 story, 30 x 63 x 90 ft., rein.-con., brick power house for wire rope plant, Kennerly Ave., to Humes-Deal Co., 777 Arcade Bldg. Est. $80,000.

Okla., Durant — PEANUT BUTTER FACTORY — Bain Peanut Co., 1 story, 80 x 100 ft. brick, rein.-con., plain found., Maple St., to J. P. Graham, Durant $45,000. Noted Aug. 9.

Okla., Sand Springs—MILL—Tulsa Rolling Mill Co., 1 story, 135 x 432 ft. steel rolling mill, incl. 132 x 135 ft. open hearth building, rein.-con., brick, steel, day labor. $200,000. Private plans.

Ont., Oshawa—CAR BARNS and SUBSTATION—Oshawa Street Ry., Bradley Blk., general contract 1 and 2 story, 116 x 213 ft., and 35 x 213 ft., rein.-con., brick, steel, plain found., to Bath & McLellan, 17 Young St. Est. $150,000.

Ont., Toronto—POWER PLANT—J. W. R. Ambrose, engr., New Union Sta., general contract 2 story, basement, rein.-con., brick, steel, plain found., to Peter Lyall & Sons, Bay St., for Toronto Terminals Ry. Co., New Union Sta. Est. $200,000. Noted June 21.

Buildings—Commercial

Proposed Work

Mass., Framingham—BANK—J. W. Beal Sons Co., archts., 185 Devonshire St., Boston, soon lets contract altering and constructing 1 story, basement, rein.-con., brick, steel, stone addition, plain found., for Framingham Trust Co., C. H. Bigelow, pres., Concord St. $150,000. Noted July 19.

Conn., Hartford—EXCHANGE—Southern New England Telephone Co., 157 Church St., New Haven, sketches by R. W. Foote, 185 Church St., New Haven, altering and constructing brick, steel addition, Pearl St. $2,000,000 incl. equipment.

N. Y., Brooklyn—STORE and GARAGE—Boerum Holding Corp., 61 Park Row, New York, plans by V. S. Todaro, 1901 West 12th St., 12 story, 70 x 99 ft., brick, concrete, State St. and Boerum Pl. $1,100,000.

N. Y., New York—APARTMENT—Teeson Constr. Co., A. Tishman, pres., 285 Madison Ave., plans by Schwartz & Gross, 347 5th Ave., brick, steel, 14 East 75th St. $900,000.

N. Y., New York—OFFICE—Consolidated Gas Co., 14th St. and Irving Pl., plans by T. E. Murray, 55 Duane St., 18 story, 116 x 122 ft., brick, steel addition. $2,500,000.

N. J., Jersey City—OFFICE—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad St. Sta., Phila., Pa., 10 story, brick, steel, Exchange Pl. $1,000,000.

N. J., Newark—THEATRE, STORE and OFFICE—A. M. Greenfield, 9 Clinton St., will not build 25 story, basement, brick, steel, plain found., 12-32 Lafayette St. $5,000,000. Project abandoned. Noted June 14.

La., Shreveport — HOSPITA L—Charity Hospital, c/o Secretary of the Board, soon lets contract remodeling administration building and 1 story, brick, concrete clinic building, constructing additional operating and ward rooms. $150,000. S. Van Os, Merchants Bldg., archt.

O., Cleveland—DEPARTMENT STORE—W. Taylor Son & Co., C. H. Strong, vice pres. and genl. mgr., plans by Walker & Weeks, 2341 Carnegie Ave., 17 story, basement, brick, steel, concrete, 630 Euclid Ave. $5,000,000. Noted Apr. 19.

Ill., Chicago—APARTMENTS—Syndicate, c/o D. S. Klafter, archt., 64 West Randolph St., sketches 15 story, basement, 100 x 150 ft., rein.-con., brick, stone, wood pile found., incl. billiard and card rooms, bowling alley, gymnasium, 5826-32 Blackstone Ave. $2,000,000.

Ill., Chicago—EXCHANGE—Illinois Bell Telephone Co., 214 West Washington St., plans by Holabird & Root, 333 North Michigan Ave., 7 story addition, 319 West Washington St. $2,000,000.

Wis., Milwaukee—APARTMENT HOTEL—Dick & Bauer, Inc., archts., 208 3rd St., soon lets contract, 4 story, basement, 50 x 156 ft., brick, rein.-con., steel, plain found., 101 13th St., for One Hundred One 13th Street Realty Co.

Ia., Dubuque—LODGE—A. F. & A. M. Lodge, c/o E. R. Young, chn., plans by R. F. Moore, 1111 Merchants Natl. Bank Bldg., Cedar Rapids, 2 story, basement, rein.-con., brick, stone. $250,000.

Minn., St. Paul — GARAGE — Ballard Storage & Transfer Co., O. T. Skettet, pres., 16 East 4th St., soon lets contract 4 story, basement, 300-car, rein.-con., 3rd and Wabash Sts. $250,000. Ellerbe & Co., 692 Endicott Bldg., archts. Noted Aug. 9.

Kan., Beloit—HOSPITAL—W. S. Irwin, secy., soon lets contract, 2 story, basement, 162 x 178 ft., rein.-con., steel, brick, stone, plain found. $200,000. Pelton & Rogers, 415 Lexington Bldg., New York, archts.

Neb., Omaha—OFFICE—G. W. Smith, Inc., G. W. Smith, pres., 280 Madison Ave., New York, soon takes bids 7 story, basement, 132 x 132 ft., rein.-con., brick, steel, stone, 1607 Farnam St. $500,000. Excavating awarded to Thomson Co., 408 Security Bldg. G. B. Prinz, Omaha Natl. Bank Bldg., archt. Noted July 19.

Mo., St. Louis—HOTEL—H. J. Rush, et al., c/o Rush, Lee & Rush, archts., 6038 Delmar Blvd., revised sketches 15 story, 3 basement, 116 x 200 ft., rein.-con., brick, steel, granite stone, terra cotta, Delmar Blvd and Des Peres Ave., incl. subway to Delmar Station of Wabash Ry. $2,000,000.

Tex., Big Springs—OFFICE—G. T. Hall & Associates, Big Springs, soon lets contract 6 story, brick, stone, concrete, Gothic type office building. $160,000. Peters, Haynes & Strange, Myrick Bldg., Lubbock, archts. Noted Aug 30.

Tex., San Antonio — OFFICE and GARAGE—K. M. Nix, 205 East Travis St., bids after Sept. 20, 18 story, basement, 114 x 168 ft., L-shaped, brick, steel, stone, Navarro and College Sts. $1,500,000. Beretta-Stiles Co., Inc., 1203 Natl. Bank of Commerce Bldg., archts. Noted Aug. 16.

Okla., Tulsa—ADMINISTRATION and PASSENGER TERMINAL—See "Unclassified."

Calif., San Diego — APARTMENT HOTEL — J. E. Collumb, 326 Juniper St., plans by Walker & Eisen, Great Republic Life Bldg., Los Angeles, 12 story basement, steel, concrete, incl. garage in basement, $1,500,000. F. G Paget, formerly operating Maryland Hotel, lessee.

Ont., Windsor—HOTEL—Norton Palmer Hotel Co., P. D. Norton, managing dir., 12 story, basement, 105 x 125 ft., rein.-con., brick, stone addition, Park St. $1,700,000. Engineer and architect not selected.

Bids Desired

Mass., Allston (sta. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Boston — APARTMENT — See "Contracts Awarded."

Mass., Boston—STORE and OFFICE—C. W. Rowell, 60 State St., taking bids 2 and 3 story, basement, 60 x 170 ft., brick, steel, plain found., 349-363 Washington St. $150,000. Shepard & Stearns, 65 Franklin St., archts.

Mass., Brighton (sta. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Everett (br. Boston)—APARTMENTS—See "Contracts Awarded."

R. I., East Providence (br. Providence)—HOME—Bradley Hospital, c/o Howe & Church, archts., Turks Head Bldg., Providence, taking bids brick home. $150,000 or more. C. Neergaard, 512 5th Ave., New York, consult. archt. Noted Feb. 2.

N. Y., Brooklyn — APARTMENT — See "Contracts Awarded."

N. Y., Kings Park—EMPLOYEES HOME—Sept. 19, by Commissioner Dpt. Mental Hygiene, Capitol, Albany, single employees building, at Kings Park State Hospital; adv. E. N.-R. Sept. 13.

N. Y., Napanoch—STAFF ACCOMMODATIONS, etc. — Sept. 27, by Commissioner Mental Hygiene, Capitol, Albany, staff accommodations, inmate cell accommodations at Institution for Defective Delinquents; adv. E. N.-R. Sept. 13.

N. Y., New York—HOSPITAL—Sept. 18, by B. S. Coler, comr. Pub. Welfare, Municipal Bldg., altering south wing Main Building, Metropolitan Hospital, Welfare Island. C. B. Meyers, 31 Union Sq. W., archt.

N. Y., Thiells—SERVICE—Sept. 26 (extended date), by Commissioner Dpt. Mental Hygiene, Capitol, Albany, service building addition at Letchworth Village; adv. E. N.-R. Sept. 13. Noted Aug. 30.

N. Y., Poughkeepsie—INFIRMARY, etc.—Oct. 10, by Dpt. Mental Hygiene, Capitol, Albany, infirmary, nurses home, Staff Apartments 2 and 3, at Hudson River State Hospital; adv. E. N.-R. Sept. 13. Noted Aug. 30.

N. J., Atlantic City — APARTMENT — See "Contracts Awarded."

N. J., Jersey City—APARTMENT—See "Contracts Awarded."

N. J., Jersey City—GARAGE—Burstyn & Heftler, 209 30th St., Woodcliffe, sub-bids about Oct. 15, 8 story, basement, rein.-con.,

Constr. News page 143

Buildings—Commercial (Continued)

brick, steel, plain found., Bergen Ave. and Academy, St. $500,000. Private plans. Noted Aug. 16.

N. J., Jersey City—HOTEL—Fairmount Hotel, c/o P. L. Schultz, archt., 256 Summit Ave., Union, bids about Oct. 15, general contract 11 story, basement, 50 x 105 ft., brick, steel, plain found., 329-333 Fairmount Ave. $300,000. Noted Aug. 2.

N. J., Newark—APARTMENT—See "Contracts Awarded."

N. J., Orange—APARTMENT—Lillien & Lillien, archts., 155 West 72nd St., New York, sub-bids about Oct. 15, 5 story, basement, 100 x 125 ft., brick, steel, plain found., South Center St., for J. J. Kelley, 24 Branford Pl., Newark. $250,000. Noted Sept. 6.

N. J., Orange—APARTMENT—J. Zingalli, Glen Ridge Ave., Montclair, taking bids general contract 4 story, basement, brick, steel, plain found., North Center and Washington Sts. $160,000. A. P. Nucciarone, 206 Central Ave., archt. Noted Sept. 6.

N. J., Ventnor (br. Atlantic City) — APARTMENT—C. Froeb, c/o O. Schmidt, archt., Guarantee Trust Bldg., Atlantic City, bids about Oct. 15, general contract 8 story, basement, brick, steel, plain found., Atlantic and Troy Aves. $250,000. Noted Aug. 16.

Ky., Louisville—HOTEL APARTMENT—See "Contracts Awarded."

O., Columbus—SAFETY—Oct. 4, W. H. Duffy, dir. Service, 5 story, basement, 17,000 sq.ft. floor space, brick, stone, concrete, Water St. $650,000. Allied Architects Assn., 82 West Broad St., archts.

Ind., Indianapolis — OFFICE — A. Goldstein, 134 North LaSalle St., Chicago, Ill., taking bids 4 story, rein.-con., brick, steel addition to Majestic Building, Pennsylvania and Maryland Sts. $200,000. D. A. Bohlen & Son, Majestic Bldg., archts. Cleveland, Cincinnati, Chicago & St. Louis Ry. Co., Indianapolis, lessee.

Mich., Muskegon—HOTEL—D. R. Swett, mgr. Occidental Hotel, taking bids altering and constructing 8 story, basement addition. Holabird & Root, 333 North Michigan Ave., Chicago, Ill., archts. Noted June 7.

Ill., Chicago — WAREHOUSE — Central Steel & Wire Co., 4545 Southwestern Ave., taking bids 1 story, 160 x 390 ft., brick, 45th Pl. and Southwestern Ave. $200,000. W. S. Crosby, 6 North Michigan Ave., archt.

Ill., Evanston — APARTMENT — H. H. Decker & Co., 400 North Michigan Ave., Chicago, taking bids 3 story, English basement, 130 x 160 ft., rein.-con., brick, stone, Madison St. and Ridge Ave. $275,000. P. E. Olsen, 720 Cass St., Chicago, archt.

Kan., Garden City—COURT—Finney Co., c/o W. G. Hopkins, clk., general contract 4 story, basement, 70 x 106 ft., rein.-con., stone, to Bailey & Burns, Norman, Okla., $122,400.

Kan., St. John—COURT—Stafford Co., c/o V. Hann, clk., bids about Oct. 1, 3 story, rein.-con., brick, stone, $150,000. Mann & Co., 722 Rorabaugh-Wiley Bldg., Hutchinson, archts. Noted Mar. 1.

Neb., Omaha—BUS TERMINAL—Union Bus Depot, c/o D. A. Baum, 231 City Natl. Bank Bldg., taking bids 2 story, basement, 100 x 180 ft., rein.-con., brick, steel, 16th and Jackson Sts. G. Fisher, 1437 City Natl. Bank Bldg., archt. Noted Aug. 30.

Tex., Pampa—COURTHOUSE—Oct. 3, by Gray Co., c/o T. M. Wolfe, judge, 4 story, 86 x 120 ft., brick, stone, steel, rein.-con. $300,000. W. R. Kaufman, 107 Monroe St., Amarillo, archt. Noted Aug. 30.

Mo., Clayton—HOSPITAL—St. Louis Co., A. Wehmeyer, judge, Court House, bids about Nov. 8 (1st unit) 3 and 5 story, basement, rein.-con., brick, stone, hospital and power plant, North and South Rd. north of Clayton Rd. $300,000. Total $1,000,000. Aegerter & Bailey, Ry. Exch. Bldg., St. Louis, archts. Noted Apr. 5.

Wash., Olympia — HOTEL — J. Wohleb, archt., Clympia, bids about Sept. 30, 7 story addition to Mitchell Hotel, 7th St. and Capital Way, for Pacific Coast Investment Co. $155,000.

Calif., Los Angeles—APARTMENT—See "Contracts wardedA."

Calif., Los Angeles—BANK and OFFICE—Hollywood Central Building Corp., 6331 Hollywood Blvd., taking bids (from selected list of bidders) 12 story, basement, 42 x 90 ft., rein.-con., Hollywood Blvd. and Vine St. $400,000. Curlett & Beelman, 1019 Union Bank Bldg., archts.

Calif., Sacramento—CLUB—Sutter Club bids about Sept. 18, 5 and 7 story, basement, rein.-con., brick, 9th and M Sts. $300,000. Dean & Dean, California State Life Bldg., and Starks & Flanders, Ochsner Bldg., archts. Noted June 14.

Calif., San Francisco—APARTMENT—See "Contracts Awarded."

Constr. News page 144

Ont., Toronto — APARTMENT — See "Contracts Awarded."

Ont., Toronto — STORE and APARTMENT — See "Contracts Awarded."

Bids Received

La., New Orleans—BANK and OFFICE—M. H. Goldstein, archt., Hibernia Bank Bldg., general contract 21 story, limestone, granite, Carondelet St., from G. J. Glover Co., Whitney Bldg., $1,409,975. Noted Aug. 16.

Contracts Awarded

Mass., Allston (sta. Boston) — APARTMENT — I. Zeiman, 333 Washington St., Boston, (5 unit) 3 story, basement, 80 x 80 ft., brick, stone, plain found., York St., day labor. $350,000. Silverman & Brown, 51 Cornhill, Boston, archts.

Mass., Boston—APARTMENT—C. Soire, 76 Hutchins St., Roxbury, 5 story, basement, brick, stone, plain found., 306 Riverway, day labor. $175,000. Silverman & Brown, 51 Cornhill, archts.

Mass., Brighton (sta. Boston)—APARTMENT—Grossman & Coombs, 143 Sutherland Rd., 3 story, basement, brick, stone, plain found., Sutherland Rd., separate contracts. $225,000. S. E. Moffie, 51 Cornhill, Boston, archt.

Mass., Everett (br. Boston)—APARTMENTS—J. Miller, 4 Parker St., Malden, Mass., 3 story, basement, 70 x 100 ft., brick, stone, plain found., Nichols St., Chatham and Baker Rds., separate contracts. $150,000. S. E. Moffie, 51 Cornhill, archt.

Mass., Fall River—BANK—Union Savings Bank, bank, South Main St., to John Crowe Co., Inc., 486 2nd St. Est. $200,000.

Mass., Hingham—TEMPLE—Old Colony Lodge of A. F. & A. M., J. I. Botting, chn. Building Com., 1 story, basement, brick, plain found., to J. W. Douglas, Spring St., Hull. Est. $150,000. Noted Aug. 30.

N. Y., Brooklyn—APARTMENT—M. L. Koeppel Building Corp., 26 Court St., 6 story, 87 x 105 ft., brick, steel, Avenue N. and East 18th St., separate contracts. $150,000. Malkind & Weinstein, 93 Court St., archts.

N. Y., Brooklyn — APARTMENT — Seacrest Building Co., M. Leibovitz, pres., 59 Court St., 87 x 230 ft., brick, steel, Darby St., separate contracts. $425,000. Cohn Bros., 361 Stone Ave., archt.

N. Y., New York—APARTMENT—Manhattan Square Beresford, Inc., H. Lipschultz, pres., 9 East 40th St., 15 story, 185 x 204 ft., brick, steel, 2 West 82nd St., to H. R. H. Constr. Corp., 9 East 40th St. Est. $3,000,000. Contractor taking bids on separate contracts.

N. Y., New York — Y. M. C. A., G. S. Bilheiner, bus. mgr., 2 West 45th St., William Sloane Memorial Building, 14 story, brick, granite, stone, on 116 x 197 x 143 ft. site, to Edward Corning Co., 145 East 45th St. Est. $1,000,000. Noted May 24.

N. J., Atlantic City—APARTMENT—Oriental Apartment Co., 2506 Atlantic Ave., 5 story, basement, 100 x 100 ft., brick, steel, plain found., 2506 Atlantic Ave., separate contracts. $175,000. Betram & Ireland, Guarantee Trust Bldg., archts. Noted June 14.

N. J., Jersey City—APARTMENT—C. Zerman, 167 Harrison St., East Orange, 5 story, basement, 117 x 129 ft., brick, steel, plain found., 252-278 Harrison Ave., separate contracts. $1,000,000. Private plans. Noted Aug. 30.

N. J., Newark—APARTMENT—H. Susser, 106 West 53rd St., Bayonne, 5 story, basement, 55 x 115 ft., brick, steel, plain found., 353-5 Roseville Ave., separate contracts. $150,000. C. Goldberg, 437 Bway., Bayonne, archt. Noted Sept. 6.

N. J., Orange — HOSPITAL — Orange Memorial Hospital, 188 South Essex Ave., 5 story, basement, brick, steel, plain found., Henry St., to Starrett Bros., 101 Park Ave., New York. Est. $500,000. Contractor soon takes bids on sub-contracts.

N. J., Red Bank — APARTMENT and SHOW ROOM—H. L. Zobel Co., Broad St., general contract 2 story, basement, brick, steel, plain found., Broad St. and Harding Rd., to L. Bonelol, Atlantic St., Long Branch. Est. $150,000. Noted July 5.

N. J., Verona (Ind. br. Montclair)—SANITARIUM, etc.—Bd. Freeholders Essex Co., Hall of Records, Newark, general contract 3 story, basement, brick, steel sanitarium, and brick, steel power house, at Essex Mt. Sanitarium to Carlson Co., Walnut St., Phila., Pa., $772,596 and $220,453 respectively; plumbing and heating, ventilating for power house, to Jaehnig & Peoples, 221 13th Ave., Newark, $29,560 and $96,260 respectively; plumbing for main building to A. M. Maddock, 234 Watchung Ave., Montclair, $84,982; heating, ventilating main building, to F. P. Farrell, 269 Camden St., Newark, $96,360; electrical work for both, to Beach Electric Co., South 13th St., Newark, $93,303. Grand total $1,393,514. Noted Aug. 30.

Pa., Phila.—APARTMENT—Owner, c/o C. E. Oelschlager, archt., 1615 Spruce St., 4 story, basement, 77 x 127 ft., rein.-con., brick, steel, plain found., 15th and Wyoming Sts., to Graham Chambley Co., 3649 Filbert St. Est. $300,000.

Pa., Phila.—BANK—Southwestern Natl. Bank, Broad and South Sts., 3 story, basement, 42 x 120 ft., rein.-con., brick, steel addition, plain found., to E. H. Keefer & Son, 1321 Rodman St. Est. $150,000.

Pa., Phila.—DELIVERY STATION—Abbott Merkt & Co., Inc., archts., 175-5th Ave., New York, 2 story, basement, 100 x 305 ft., rein.-con., brick, steel, plain found., 9th and Poplar Sts., to Nelson-Pedley Co., Corn Exch. Bldg., for Strawbridge & Clothier Dpt. Store, 8th and Market Sts. Est. $300,000. Noted Aug. 23.

Ill., Chicago—DEPARTMENT STORE—A. Epstein, archt., 2001 West Pershing Rd., general contract 8 story, addition, 30,000 ft. floor space, Halsted St. and Roosevelt Rd., to L. Balkan, 1852 West Austin Ave., for Twelfth Street Store, 12th and Roosevelt Rd.

Ill., Chicago — FURNITURE WAREHOUSE—A. S. Alschuler, archt., 28 East Jackson Blvd., general contract 12 story, 80 x 200 ft., rein.-con., 1061 West 35th St., to McLennan Constr. Co., 307 North Michigan Ave., for Spiegel May Stern Co., 1601 West 35th St.

Ill., Chicago — GARAGE — Ritz-Chicago Garage Corp., 134 North La Salle St., general contract 3 story, basement, 46 x 167 ft., 5017-21 Lake Park Ave., to Callner Constr. Co., 134 North La Salle St. Est. $400,000.

Ill., Chicago — OFFICE and STORE — Holabird & Root, associated archts., 333 North Michigan Ave., general contract 25 story, 60 x 100 ft., brick, steel, stone, caisson found., to Hegeman-Harris Co., 431 North Michigan Ave., for J. M. Patterson, 431 North Michigan Ave. Est. $2,000,000. Noted Aug. 9.

Minn., Minneapolis — CLUB HOUSE — Calhoun Beach Club, Inc., S. G. Collins, pres., 203 Lincoln Bank Bldg., general contract 8 story, 127 x 231 ft., rein.-con., brick club house, incl. swimming pools, West Lake St. and Dean Blvd., to Natl. Contg. Co., 311 Metropolitan Bank Bldg. $1,000,000.

Neb., Omaha—OFFICE—See "Proposed Work."

Mo., St. Louis—STORE, OFFICE and LODGE—Grand Court Order of Calanthe of Missouri, c/o C. H. Wray, archt., Rialto Bldg., 5 story, basement, 67 x 146 ft., rein.-con., brick, stone, terra cotta, Finney Ave. and Sarah St., to Nolan-Maxwell Constr. Co., Rialto Theatre Bldg. Est. $300,000. Noted Aug. 9 under "contracts awarded."

Calif., Los Angeles—APARTMENT—H. Hersh & Associates, 8 story, basement, 80 x 130 ft., rein.-con., steel, tile, incl. 60 car garage in basement, Hillcrest and Franklin Aves., sub-contracts. $375,000. Cramer & Wise, 567 I. W. Hellman Bldg., archts.

Ont., Ottawa—OFFICE—S. E. O'Brien, secy. Dpt. P. Wks., Dominion Govt., 187 x 262 ft., brick, stone, steel, plain found., to Peter Lyall Co., 120 St. James St., Montreal, Que., $2,500,000. Noted July 19.

Ont., Toronto — APARTMENT — Price Bros., 2279 Queen St. E., 3 story, basement, 200 x 200 ft., rein.-con., brick, steel, plain found., Glenmanor Dr., day labor. $300,000.

Buildings—Educational, Religious

Proposed Work

Me., Auburn—CONVENT—Owner, c/o A. P. Dion, archt., 260 Tremont St., Boston, Mass., sketches convent. $150,000 or more.

Mass., Arlington — PARISH HOUSE — Arlington Crthodox Congregational Church, c/o Peare & Dorman, archts., 6 Beacon St., Boston, sketches 2 and 3 story, basement, brick, stone, plain found., Pleasant and Maple Sts.

Mass., Boston — NORMAL SCHOOL — Commonwealth of Massachusetts, Dpt. Educ., State House, sketches by Henry & Richmond, 12 West St., 3 story, basement, brick, stone, plain found., Brookline and Longwood Aves. $400,000.

N. Y., Brooklyn—COLLEGE—Brooklyn College Pharmacy, 265 Nostrand Ave., plans by Tooker & Marsh, 101 Park Ave., New York, 5 story, 160 x 200 ft., brick, stone, Lafayette and Nostrand Aves. $400,000. Noted July 12.

Buildings—Educational, Religious (Cont.)

N. Y., New York—SCHOOL and APARTMENT—Broarley School Ltd., G. E. Madder, pres., 60 East 61st St., plans by B. W. Morris, 101 Park Ave., 6 story, 49 x 136 ft., brick, steel, 12 East 83rd St. $600,000.

N. J., Pleasantville—HIGH SCHOOL—Bd. Educ. soon takes new bids high school. $600,000. Former bids rejected. S. H. Vaughn, Guarantee Trust Bldg., Atlantic City, archt. Noted July 26.

N. J., West Orange — SCHOOL — Bd. Educ., Northfield Ave., sketches by C. W. Wands, 309 Bloomfield Ave., Caldwell, altering and constructing 2 story, basement, brick, steel addition to Pleasantdale School, Pleasant Valley Way. $150,000.

Fla., Gainesville—CHURCH, etc.—First Methodist Church, W. F. Floyd, chn. building com., church and sunday school. $200,000.

O., Bernard—SCHOOL—J. F. Sheblessy, archt., 1202 Republic St., Cincinnati, soon lets contract 3 story, basement, rein.-con., brick, plain found., Main Ave., for Order of St. Francis, 4536 Carthage Pk. $500,000.

Okla., Tulsa—SEMINARY—Building Committee, St. John's Hospital, soon lets contract 3 story basement, 50 x 100 ft., brick, stone, concrete, plain found. $150,000. F. W. Redlick, Court Arcade Bldg., archt.

Bids Desired

Mass., Newton—SCHOOL—City, C. C. Chadwick, comr. Pub. Buildings, City Hall, taking bids 2 story, basement, brick, plain found., Parkview Ave. near Cabot St. $200,000. C. R. Greco, 11 Beacon St., archt. Noted Aug. 16.

Mass., West Springfield (br. Springfield)—CHURCH—Sept. 17, by C. C. Coveney, archt., 184 Boylston St., Boston, 1 story, basement, brick, stone, plain found. Elm St., for Church of Good Shepherd. $150,000. Noted Mar. 15.

N. Y., New York — HIGH SCHOOL — Sept. 25, by W. C. Martin, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, Evander Childs High School, Gun Hill Rd., Magenta St., Barnes and Bronxwood Aves., for Bd. Educ., 500 Park Ave.

N. J., Livingston—SCHOOL—Sept. 18, by Bd. Educ., Central School, general contract altering and constructing 2 story, brick, steel addition to Roosevelt School, plain found. $150,000. Guilbert & Betelle, 20 Branford Pl., Newark, archts. Noted June 21.

Pa., State College—CHEMICAL LABORATORY—Sept. 20, by Penn State College, 3 story, basement, 45 x 134 ft., rein.-con., steel, stone, chemical laboratory, plain found. $175,000. C. Z. Klauder, 1429 Walnut St., Phila., archt.

D. C., Wash.—SCHOOL—Sept. 19, by District Comrs., District Bldg., replacing Langdon School by constructing 16 room building, incl. combined gymnasium and assembly hall.

W. Va., Wheeling—SCHOOL—Sept. 25, by Bd. Educ., F. L. Teal, supt., 3 story, basement, brick combination auditorium and gymnasium addition to Madison School, Zane St. $160,000. F. F. Faris, 1117 Chapline St., archt.

Miss., Alcorn — ADMINISTRATION DORMITORY, etc.—Sept. 25, by Alcorn College, c/o Mississippi State Building Com., Jackson, Miss., 1 and 2 story, 46 x 100 ft. administration building, 2 and 3 story, 36 x 136 ft. dormitory, and 3 story, 107 x 165 ft. science building, all brick, tile, rein.-con. $325,000. C. H. Lindsley, Lamar Life Bldg., Jackson, archt. Noted June 28.

Miss., Oxford — DORMITORIES — Sept. 25, by University of Mississippi, c/o Mississippi State Building Com., Jackson, two 3 story, 33½ x 88 ft., and 40½ x 109 ft., brick, stone, rein.-con., plain founds. $450,000. F. P. Gates Co., Edwards Bldg., Jackson, archts.

Ind., Garrett—CHURCH—St. Peters & Pauls Catholic Church taking bids and open same about Sept. 10, 52 x 120 ft., brick, steel church. $150,000. A. M. Strauss, 415 Cal-Wayne Bldg., Ft. Wayne, archt.

Ind., Manila — SCHOOL — Sept. 25, by School Comrs., 2 story, basement, rein.-con., brick, steel, stone grade and high school. $150,000. Henkel-Hanson, Heineman Bldg., Connersville, archts.

Ind., Sheridan—SCHOOL—Sept. 24, by School Comrs., 2 story, basement, rein.-con., brick, steel, stone grade and high school. $250,000. McGuire & Shook, North Meridian St., Indianapolis, archts. Noted July 26.

Mich., Detroit—SCHOOL—Sept. 18, by C. A. Gadd, bus. mgr. Bd. Educ., 1354 Bway. Ave., 2 story, basement, 120 x 175 ft., rein.-con., brick, steel, plain found., Belvidere Ave. $150,000. R. Carey, 603 Hoffman Bldg., archt.

Mich., Pontiac—SCHOOL—Sept. 25, by R. Hazelton, bus mgr. Bd. Educ., 2 story, basement, rein.-con., brick, steel, plain found., Longfellow site. $200,000. Childs & Smith, 720 North Michigan Ave., Chicago, Ill., archts.

Mich., Pontiac—SCHOOLS—Oct. 2, by Bd. Educ., Lincoln Junior High School, 1 and 2 story, basement, 263 x 216 x 374 ft. $400,000; also 2 story grade school $300,000, both rein.-con., brick, steel. W. B. Ittner, 911 Locust St., St. Louis, Mo., archt. Noted Sept. 6.

Mich., Owosso — HIGH SCHOOL — Bd. Educ. bids in October, 2 story, basement, rein.-con., brick, steel, stone. $400,000. W. B. Ittner, 911 Locust St., St. Louis, Mo., archt. Noted July 19.

Ill., Evanston—SCHOOL—Childs & Smith, archts., 720 North Michigan Ave., Chicago, bids about Sept. 25, 2 story, brick, stone addition, Oakton St. and Ridge Ave., for Bd. Educ. $160,000. Noted May 3.

N. D., Minot—HIGH SCHOOL—Gugenhagen & Molander, archts., 305 Union Natl. Bank Bldg., bids about Sept. 20, 3 story, basement, 127 x 280 ft., rein.-con., brick, stone, for Bd. Educ. $225,000.

Mo., University (St. Louis P. O.)—HIGH SCHOOL—Bd. Educ., A. Fairbank, pres., bids in October, (1st unit) high school, 3 story, basement, rein.-con., brick, stone, terra cotta, Jackson Rd., Dorsett and Shaftsbury Sts. $550,000. Ferrand & Fitch, 6188 Delmar Blvd. and Trueblood & Graf, 1517 Chemical Bldg., St. Louis, archts. Noted June 21.

Calif., Redwood City—HIGH SCHOOL—Trustees Sequois Union High School Dist. taking bids 2 story, rein.-con. buildings. $250,000. A. I. Coffey, Phelan Bldg., archt.

Ont., Windsor — COLLEGIATE — Sept. 24, by T. R. Noble, secy. Bd. Educ., City Hall, 2 and 3 story, basement, brick, stone, incl. 20 class rooms, gymnasium, auditorium, physics, chemistry laboratories, Jocky Club Park. $500,000. Cameron & Ralston, Bartlett Bldg., archts. Noted May 3.

Contracts Awarded

Mass., Agawam — JUNIOR HIGH SCHOOL—Town, School Bd., and P. B. Johnson, archt., 1582 Main St., 3 story, basement, 65 x 140 ft., brick, stone, plain found., to W. W. Davis, 97 Bellevue Ave., Springfield. Est. $150,000.

Mass., Lynn — NURSES HOME — Lynn Hospital, H. M. Hoague, pres., 212 Boston St., 3 story, basement, 35 x 110 ft., 35 x 90 ft., and 35 x 45 ft., brick, stone, plain found., Western Ave., to C. S. Cunningham & Sons Constr. Co., 80 Boylston St., Boston. Est. $150,000. Noted July 19.

N. Y., Brooklyn—HIGH SCHOOL—Bd. Educ., 500 Park Ave., New York, general contract Samuel J. Tilden High School, Beverly Rd., Tilden Ave., East 57th and 59th Sts., to T. G. Sperling Co., Church and Rogers Aves., $1,682,000; heating, to Heat Control Serv., 759 Park Pl., $219,897; plumbing, to Egan Co., Inc., $119,800; electrical work, to Berkshire Electric Co., 240 Sumner Ave., $53,200. Grand total $2,074,897. Noted July 26.

N. Y., Monroe—SCHOOL—Bd. Educ., Town Hall, general contract 3 story, basement, brick steel, plain found., to Elias Nielson Constr. Co., Inc., 132 Mohagen Ave., Middletown, $89,984. Noted Aug. 23. Plumbing and water supply, to G. M. Mitchell Co., 19th Ave., Paterson, $16,800; heating, ventilating and boilers, to G. B. and B. H. Steinke, 103 Park Ave., New York, $14,340; electrical work, to Lohman Electric Co., Central Valley, N. Y., $3,949.

N. J., Cresskill—SCHOOL—Bd. Educ., Orchard St., general contract 2 story, basement, brick, steel, to G. M. Hoeger, 353 Broad St., Leonia, $162,500. Noted Sept. 13. Plumbing, to J. F. Polmann, 581 Central Ave., Carlstadt, $11,750; heating, to Schrennel Bros., 734 South 12th St., Newark, $23,570; electrical work, to A. Hasbrouck, Jr., Inc., 240 Main St., Hackensack, $6,997. Noted Sept. 13.

N. J., Garfield—SCHOOL—St. Stanislaus Kosta Roman Catholic Church, 184 Ray St., general contract 2 story, basement, 55 x 115 ft., brick, steel, plain found., Plaza Ave. and Ray St., to Sobray Whitcomb Co., 105 West 40th St., New York. Est. $150,000. Noted May 24.

D. C., Wash.—SCHOOL—District Comrs., District Bldg., John Quincy Adams School, to Northeastern Constr. Co., Lexington Bldg., Baltimore, Md., $460,037. Noted Aug. 23.

Ind., Indianapolis—ART SCHOOL—Herron Art. Institute, 16th and Pennsylvania Sts., general contract 2 story, basement, rein.-con., brick, steel, to L. Colvin, 823 Continental Bank Bldg. Est. $150,000.

Ind., Indianapolis — CHURCH — West Michigan Methodist Church, 2136 West Michigan St., general contract 2 story, basement, brick, steel, to A. A. Dunn, 410 Buckingham Dr. Est. $150,000.

Ind., Indianapolis—CHURCH—Christian Church, general contract Olive Branch Church, 2 story, basement, brick, steel, South Pennsylvania and Raymond Sts., to Pruitt & Quackenbush, 28 West North St. Est. $150,000.

Ind., Moran—SCHOOL—School Comrs. Owen Twp., Clinton Co., 2 story, basement, rein.-con., brick, steel high and grade school, incl. assembly room, auditorium, class rooms, to L. E. Wickersham, Logansport. Est. $150,000.

Ind., Terra Haute—DORMITORY—State Normal School, general contract 4 story, 40 x 140 ft., rein.-con., brick, steel, to Adams & Sanford, 1215 South 8th St. Est. $160,000. Noted June 28.

Ind., Troy—SCHOOL—School Comrs., general contract 2 story, basement, 72 x 150 ft., rein.-con., brick, steel, incl. 4 class rooms, gymnasium, auditorium, to W. Toelle, Princeton. Est. $150,000.

Mich., Pontiac — HIGH SCHOOL — R. Hazelton, bus. mgr. Bd. Educ., general contract 2 story, basement, rein.-con., brick, steel, plain found., to O. F. Miller Constr. Co., Kalamazoo, $259,495; heating, to Ryan Plumbing & Heating Co., 403 Brady St., Davenport, Ia., $118,214. Noted June 28.

Ill., La Grange — SCHOOL — J. C. Lewellyn Co., archts., 38 South Dearborn St., Chicago, masonry and carpentry contract 2 story, basement, 60 x 170 ft. school, to B. J. Regnall, 1 South La Salle St., Chicago; plumbing, to T. E. Whitechurch, 5154 West 32nd St., Chicago; heating, to W. F. Thumn, 1130 Cornelia St., Chicago, for Bd. Educ., here. Est. $150,000. Noted July 12.

Wis., Shorewood (mail Milwaukee) — SCHOOL—School Dist. 4, masonry, concrete, cut stone and carpentry contract Science School, 2 story, basement, 99 x 159 ft., brick, tile, Atwater and Oakland Sts., to Pehrson Bros., 55 Gateway Bldg., Minneapolis, Minn. $127,800. Structural steel, to Hackendahl & Schmidt, 16th and Canal Sts., Milwaukee, $1,510; plumbing, to J. E. Robertson, 213 Wisconsin Ave., Milwaukee, $10,933; sheet metal, to Midwest Vent. Co., 249 Pittsburgh Ave., Milwaukee, $1,489; glass, to Potek Bros., 230 East Water St., Milwaukee, $1,375; electrical work, to UiDein-Ortmann Co., 160 Ogden Ave., $11,689; blackboards, to Milwaukee Blackboard Co., 57 Erie St., $1,084; marble, to Breidster Marble Co., 500-7th St., $1,075; terra cotta, to International Terra Cotta & Tile Co., 775 Humboldt Ave., Milwaukee, $1,993; tile, to Milwaukee Tile & Mosaic Co., 135 Mason St., $5,649; roofing, to F. J. A. Christiansen, 220 Northway St., North Milwaukee, $4,800.

Mo., St. Louis — CHURCH — Immanuel Baptist Congregation, E. L. Pinkerton, pastor, 5869 A Enright Ave., altering and constructing 2 story, basement, 18 x 68 ft., rein.-con., brick, stone addition, 5850 Cates Ave., to C. E. Hamilton, 502 Ambassador Bldg. Noted May 31.

Ark., Ft. Smith — AUDITORIUM and ACADEMIC—St. Scholastica Convent, general contract 4 story, basement, 60 x 240 ft., brick, stone, plain found., to Mann Constr. Co., Petroleum Bldg., Oklahoma City, Okla., $250,000. Heating and plumbing, to Hartmyer Plumbing & Heating Co., Tulsa, Okla.; wiring to Richard Electric Co., Tulsa, Okla.

Federal Government Work

Proposed Work

Maine — WHARF — Superintendent of Lighthouses, Portland, furnishing, driving piles, repairing wharf at Little Diamond Island Lighthouse Dpt., Portland Harbor.

Delaware—RADIO MASTS—Spec. 5641—Bureau Yards & Docks, Navy Dpt., Wash., D. C., radio masts at Cape Henlopen and Bethany Beach.

Mississippi — LEVEE — Mississippi River Comn., Vicksburg, preliminary plans main levee line in Mississippi River northward from Greenville.

Ind., Michigan City—DREDGING—U. S. Engineer Office, Chicago, Ill., dredging.

Michigan — ROCK REMOVAL — U. S. Engineer Office, Detroit, rejected bids July 16, rock removal St. Marys River, Course 9. Noted Aug. 2.

Tex., Fort Bliss (br. El Paso)—QUARTERS—Constructing Quartermaster, 50 sets N C O quarters at Fort Bliss.

Bids Desired

Mass., Rutland Heights—ROOT CELLAR—Sept. 25, by U. S. Veterans' Bureau, Arlington Bldg., Wash., D. C., root cellar addition to Building 5, U. S. Veterans' Hospital.

Constr. News page 145

Federal Government Work (Continued)

N. Y., New York — DREDGING and ROCK REMOVAL—Oct. 1, by U. S. Engineer Office, Army Bldg., 39 Whitehall St., in East River; adv. E. N.-R. Sept. 13. Noted Aug. 30.

N. Y., New York — REPAIRING SKYLIGHT—Sept. 20, by Treas. Dpt., at office Supervising Archt., Wash., D. C., repairing east and west slopes of skylight over workroom U. S. Post Office.

N. Y., Niagara Falls—REMODELING—Sept. 28, by Treas. Dpt., at office Supervising Archt., Wash., D. C., U. S. Custom House.

N. Y., Odgensburg—CHANGES—Oct. 1, by Treas. Dpt., at office Supervising Archt., Wash., D. C., changes in second story U. S. Post Office. J. A. Wetmore, acting superv. archt.; adv. E. N.-R. Sept. 13.

N. Y., St. George — AIRWAYS LANTERNS—Sept. 26, by Superintendent of Lighthouses, Staten Island, one hundred 300-mm, acetylene airways lantern, complete, with acetylene flasher, regulator and burner, arranged for sunvalve, and suitable for mounting on standard double ended airways route acetylene beacon range lantern.

N. Y., Sunmount—REMODELING—Sept. 25, by U. S. Veterans' Bureau, Arlington Bldg., Wash., D. C., pipe trench, steam lines at U. S. Veterans' Hospital.

N. J., East Orange—ELEVATOR—Sept. 24, by Treas. Dpt., at office Supervising Archt., Wash., D. C., in U. S. Post Office.

N. J., Elizabeth—POST OFFICE—Oct. 5, by Treas. Dpt., at office Supervising Archt., Wash., D. C., remodeling and extending U. S. Post Office. J. A. Wetmore, Wash., D. C., act. superv. archt.; adv. E N.-R. Sept. 13.

Pa., Pittsburgh—LOCK GATES—Oct. 8, by U. S. Engineer Office, fabricating, delivering, erecting one upper gate and one lower gate, two leaves each, for 56 ft. lock; also upper and lower lock gates, 2 leaves each, for 110 ft. lock at Deadman's Island Ohio River; adv. E. N.-R. Sept. 13. Noted Aug. 30.

Md., Annapolis — BOILER HOUSE — Spec. 5635 — Sept. 19, by Bureau Yards & Docks, Navy Dpt., Wash., D. C., repairing boiler house at Naval Academy. Noted Sept. 6.

D. C., Wash.—PIPE, etc.—Sept. 17, by A. L. Flint, genl. purch. officer Panama Canal, wrought iron pipe, gate valves.

D. C., Wash. — ANTENNA TOWERS — Sept. 20, by Dpt. Commerce, Div. Supplies, 6 to thirty, 125 ft. antenna towers.

D. C., Wash. — REFRIGERATION EQUIPMENT — Sept. 20, by A. L. Flint, genl. purch. agt. Panama Canal, electric refrigeration equipment, roofing material, plate steel, yellow pine lumber and asphalt.

D. C., Wash.—NURSES QUARTERS—Oct. 5, by Constructing Quartermaster, Army Medical Center, nurses quarters; adv. E. N.-R. Sept. 13.

N. C., Fort Bragg—PAVING—Oct. 8, by Constructing Quartermaster, grading, curbing, guttering, sewers, concrete paving 4,650 sq.yd. at Fort Bragg; adv. E. N.-R. Sept. 13.

Ga., Augusta—ROADS—Sept. 25, by U. S. Veterans' Bureau, Arlington Bldg., Wash., D. C., roads and walks at U. S. Veterans' Hospital.

Fla., Jacksonville—DREDGING—Oct. 4, by U. S. Engineer Office, 105,900 cu.yd. Anclote River. Noted Aug. 30.

Ala., Birmingham—VAULT—Sept. 25, by Treas. Dpt., at office Supervising Archt., Wash., D. C., for U. S. Veterans' Bureau.

Ala., Tuskegee—GRADING—Sept. 25, by U. S. Veterans' Bureau, Arlington Bldg., Wash., D. C., at U. S. Veterans' Bureau. Noted Apr. 19.

Miss., Vicksburg—BARGES—Sept. 20, by U. S. Engineer Office, P. O. 404, 4 steel line barges; adv. E. N.-R. Sept. 13.

La., New Orleans — DREDGING — Sept 25, by U. S. Engineer Office, Riverfront and Burdettel Sts., dredging 2,200,000 cu.yd. earthwork.

Tenn., Memphis—POST OFFICE—Oct. 9, by Treas. Dpt., at office Supervising Archt., Wash.; D. C., 1 story, 69 x 137 ft. addition, Calhoun St.

Illinois—DREDGING—Oct. 5, by U. S. Engineer Office, 537 South Dearborn St., Chicago, in Illinois River; adv. E. N.-R. Sept. 13. Noted Aug. 30 under "Chicago."

Ill., Maywood—RADIO STATION—Sept. 17, by Dpt. Commerce, Div. Supplies, Wash., D. C., radio station building, on grounds U. S. Veteran's Hospital.

Minn., St. Cloud—DEEP WELL—Sept. 18, by U. S. Veterans' Bureau, Arlington Bldg., Wash., D. C., testing deep well and well pump at U. S. Veterans' Hospital.

Neb., Fort Crook—RADIO STATION—Sept. 17, by Dpt. Commerce Div. Supplies, Wash., D. C., radio building at Fort Crook Military Reservation; also sewer and water service connections.

Constr. News page 146

Neb., Omaha—WATER PIPING—Sept. 18, by Treas. Dpt. at office Supervising Archt., Wash., D. C. installing water supply piping at U. S. Post Office, Court and Custom Houses. Noted Aug. 16.

Wash., Walla Walla — INFIRMARY — Oct. 16, by U. S. Veterans' Bureau Arlington Bldg., Wash., D. C., infirmary building, incl. roads, walks, drainage at U. S. Veterans' Hospital; adv. E.N.-R. Sept. 13.

California — Utah — ELECTRIC AIRWAYS BEACONS — Dpt. Commerce, Div. Supplies, Wash., D. C., taking bids electric airways beacons and intermediate landing field equipment on Blue Canyon-Verdi and Parran-Battle Mountain cut-off section San Francisco-Sale Lake City Airway.

Calif., Crescent City—BREAKWATER—Oct. 1, by U. S. Engineer Office, 401 Custom House, San Francisco, repairing, extending breakwater, Crescent City Harbor. Noted Aug. 23.

Calif., San Diego—CRANE—Spec. 5713—Oct. 3, by Bureau Yards & Docks, Navy Dpt., Wash., D. C., electric bridge crane at Naval Operating Base. Noted Aug. 30.

P. R., El Cayey — REROOFING — Oct. 10, by Bureau Yards & Docks, Navy Dpt., Wash., D. C., reroofing buildings at Naval Station.

Bids Received

N. Y., Dunkirk—POST OFFICE—Treas. Dpt., at office Supervising Archt., Wash., D. C., Aug. 29, post office, from C. Weitz Sons, 713 Mulberry St., Des Moines, Ia., $97,200. Noted Aug. 2.

Pa., Pittsburgh—WARDS—Treas. Dpt., at office Supervising Archt., Wash., D. C., additional wards at U. S. Marine Hospital, from Theriault Constr. Co., 534 East Johnson St., Phila., Pa., $4,734. Noted Aug. 23.

Pa., Sayre—POST OFFICE—Treas. Dpt., at office Supervising Archt., Wash., D. C., Sept. 4, U. S. Post Office, from A. C. Samford, 301 Washington St., Montgomery, Ala., $70,680. Noted Aug. 9.

Del., Newark—POST OFFICE—Treas. Dpt., at office Supervising Archt., Wash., D. C., Aug. 31, U. S. Post Office, from A. H. Alcott, Wilmington, $60,370. Noted Aug. 9.

Va., Elko—KITCHEN, etc.—Constructing Quartermaster, Wash., D. C., kitchen addition, heating system at lodge, U. S. Glendale Natl. Cemetery, from R. W. Gregory, $3,239.

Va., Newport News—DREDGING—U. S. Engineer Office, Norfolk, Sept. 5, channel, from Morris & Cummings, 15 Moore St., New York, at $0.288. Noted Aug. 9.

Va., Quantico—GENERATING PLANT—Spec. 5602—Bureau Yards & Docks, Navy Dpt., Wash., D. C., steam generating plant, water tube boiler, air cooled boiler settings at U. S. Marine Barracks, from M. H. Pagenhardt & Co., 2130 Locust St., Phila., Pa., $224,730. Noted Aug. 23.

Contracts Awarded

N. Y., Beacon—OUTSIDE STEAM DISTRIBUTING SYSTEM—U. S. Veterans' Bureau, Arlington Bldg., Wash., D. C., outside steam distribution system at U. S. Veterans' Hospital, Castle Point, to Virginia Eng. Co., Newport News, Va., $36,873. Noted Sept. 6.

N. Y., Olcott — SUPERSTRUCTURE — U. S. Engineer Office, Buffalo, concrete superstructure on West Pier, Olcott Harbor, to F. W. Bond, Buffalo, $19,080. Noted Aug. 9.

N. Y., Rockaway Point (sta. Brooklyn)—BULKHEAD—Spec. 5647—Bureau Yards & Docks, Navy Dpt., Wash., D. C., repairing bulkhead at Naval Air Station, to Sprague Constr. Co., Arverne, $6,750 (90 days). Noted Aug. 30.

Pa., Beaver Falls — REMODELING — Treas. Dpt., at office Supervising Archt., Wash., D. C., remodeling, enlarging U. S. Post Office, to H. V. Kirke Co., Beaver Falls, $14,325. Noted July 26.

Va., Quantico—BUILDINGS—Spec. 5601—Bureau Yards & Docks, Navy Dpt., Wash., D. C., building at U. S. Marine Barracks, to J. A. Jones Constr. Co., Charlotte, N. C., $1,053,500. Noted Aug. 23.

Maryland — ROADS — U. S. Engineer Office, Wilmington, Del., concrete paving 3.92 mi. road north and south side Chesapeake & Delaware Canal, from Bethel and Chesapeake City, to P. D. Phillips & Bro., Salisbury, $18,590. Noted July 5.

D. C., Wash. — GUARD HOUSE — Constructing Quartermaster, Main Bldg., Walter Reed Hospital, guard house addition at Walter Reed Hospital to T. F. Jones, 924 5th St. N. E., $13,355. Noted Aug. 23.

S. C., Charleston—DREDGING—U. S. Engineer Office, in Cooper River and Town Creek, Charleston Harbor, to Arundel Corp., Pier 2, Pratt St., Baltimore, Md., $64,350. Noted July 12.

Alabama and Georgia—DREDGING, etc.—U. S. Engineer Office, dredging and dike construction in Chattahoochie River, to Standard Dredging Co., Jacksonville, Fla., $44,000. Noted June 21.

Illinois — PILING DIKES — U. S. Engineer Office, St. Louis, Mo., at Cram Island, to Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City, Mo., $126,345; at Boston Bar to W. P. McGeorge, Pine Bluff, Ark., $179,980. Noted Sept. 6.

Ill., Chicago—BARGE—U. S. Engineer Office, 537 Dearborn St., steel barge, to C. Hegewald & Co., New Albany, Ind., $7,790. Noted July 26.

Ill., Paxton—POST OFFICE—Treas. Dpt. at office Supervising Archt., Wash., D. C., U. S. Post Office, to F. R. Comb, 2113 Chicago Ave., Minneapolis, Minn., $59,950. Noted Aug. 30.

Ariz., Tuscon—BUILDINGS, etc.—U. S. Veterans' Bureau, Arlington Bldg., Wash., D. C., buildings and utilities at U. S. Veterans' Hospital, to General Constr. Co., 1800 East 46th Ave., Denver, Colo., $226,700. Noted July 26.

Calif., San Diego — STOREHOUSE — Spec. 5704—Bureau Yards & Docks, Navy Dpt., Wash., D. C., at Naval Operating Base, to Sumner Sollitt Co., 307 Michigan Ave., Chicago, Ill., $148,300 (210 days). Noted Aug. 30.

Unclassified

Proposed Work

LIGHT and POWER DISTRIBUTION—**North Carolina**—Pub. Serv. Co., 19564 East **6th** St., Cleveland, O., purchased holdings of Blowing Rock Power & Light Co., Blowing Rock, and plans system to furnish various small towns in Western North Carolina with light and power.

UNDERPASS—**Shreveport, La.**—City 36 x 600 ft. rein.-con. underpass at Market St. and Yazor & Mississippi Valley R.R. $100,000. C. E. Barnes, City Hall, engr.

LANDING FIELD — **Detroit, Mich.** — Enlarging city airplane landing field, 95 x 100 ft., concrete, brick, steel hangar, concrete paving, Lynch and French Rds. $85,000. P. A. Fellows, City Hall, engr.

SUBWAY—**St. Louis, Mo.**—See "Buildings-Commercial."

OIL PIPE LINE, etc.—**Texas**—Sweetwater Oil & Refining Co., Sweetwater, 25 mi. 4 in. pipe line from point near Sweetwater to Noodle Creek pool $125,000; 20 mi. 4 in. pipe line from point near Noodle Creek Jones Co. to Fisher Co. $75,000; installing pumps, small tank in refinery at Sweetwater, $30,000. Private plans.

RESORT—**Del Rio, Tex.**—A. A. Balding & E. A. Elliot, resort on 2,000 acre site incl. lake golf course, airplane landing on Devils River, west of here. $100,000.

OIL REFINERY IMPROVEMENTS — **Wichita Falls, Tex.**—J. J. and M. Taxman purchased oil and gas refinery from Miller Refining Co. and plans improving same. $50,000 or more incl. equipment, machinery. Private plans.

TRANSMISSION LINE — **Oklahoma** — Oklahoma Gas & Electric Co., Insurance Bldg., Oklahoma City, 16 mi. 23,000 volt transmission line from Maud to Little River oil fields. $40,000. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engrs.

LIGHTING SYSTEM—**Cherokee, Okla.**—City preliminary plans 150 "White Way" posts and 30,000 ft. armored cable. $25,000. H. G. Frizzell, Cherokee, engr.

NATURAL GAS SYSTEM—**Spiro, Okla.**—City, preliminary plans natural gas system. $30,000. Engineer not selected.

AIRPORT—**Tulsa, Okla.**—City passenger and administration buildings, hangars, mechanical shops, runways. $1,000,000. B. R. Shaw Co., 4616 Lindell Blvd., St. Louis, Mo., engrs.

NATURAL GAS SYSTEM—**Webb City, Okla.**—City natural gas system. $25,000. H. Davidson, mayor.

TELEPHONE IMPROVEMENTS—**Denver, Colo.**—Mountain States Telephone & Telegraph Co., 800 14th St., appropriated $630,700, installing dial system.

POWER LINE — **Colorado** — Pub. Serv. Co., 15th and Champa Sts., Denver, extending 65 mi. 6,600 volt, 3 phase power line from Alamosa to La Jara, Waverly and Capulin by way of Blanca and Fort Garland. T. Gray, supt.

Unclassified (Continued)

AIRPORT—**Grand Junction, Colo.**—City field improvements, hangars, lights. T. E. Thompson, city engr.

PAVING PLANT—**Pueblo, Colo.**—New Mexico Constr. Co., V. C. Jones, paving plant, bins, mixers, West 4th St. $30,000.

LIGHTING SYSTEM—**Los Angeles, Calif.**—Los Angeles Co. ornamental lighting system in Davidson City Sect., Carson St. To exceed $30,000.

CAUSEWAY—**San Diego, Calif.**—Common Council, causeway over Mission Bay, known as A. & I. Dist. 1, incl. 166,119 cu.yd. embankment, 825,027 sq.ft. 2 in. warrenite on 6 in. concrete paving 110,377 sq.ft. 6 in. concrete paving, 2 bridges, ornamental lighting system. $633,096. P. R. Watson, engr.

ROLLING DOORS—**San Francisco, Calif.**—State Bd. of Harbor Comrs., Ferry Bldg., 112 steel rolling doors for Pier 45. F. G. White, Ferry Bldg., engr.

BATHING BEACH — **Hamilton, Ont.** — City Council improving civic bathing beach, foot of Bay St. $100,000. W. L. McFaul, City Hall, engr.

GRAVEL PLANT and WHARVES — **Hiltonbeach, Ont.** — Dominion Trap Rock Co., Bruce Mines, concrete, steel gravel plant, wharves. $300,000.

GRAIN ELEVATOR — **Wilcox, Sask.** — Munro Fowler Elevator Co. double grain elevator. $100,000.

Bids Desired

BATH HOUSE—**Babylon, N. Y.**—Sept. 20, at office Long Island State Park Comn., Belmont Lake State Park, bathhouse, supporting buildings at Jones Beach State Park, Nassau Co. A. E. Howland, ch. engr.; adv. E. N.-R. Sept. 13.

FERRY BOATS—**New York, N. Y.**—Sept. 28, by Dpt. Mental Hygiene, Capitol, Albany, 2 double end steel diesel electric ferryboats for Manhattan State Hospital, Wards Island; adv. E. N.-R. Sept. 13. Former bids rejected. Noted Sept. 6.

FERRYBOAT MACHINERY—**New York, N. Y.**—Oct. 10 (extended date), by Dpt. Mental Hygiene, Capitol, Albany, machinery for 2 double end steel diesel electric ferryboats for Manhattan State Hospital, Ward's Island; adv. E. N.-R. Sept. 13. Noted Aug. 23.

REFRIGERATION WORK — **New York, N. Y.**—Oct. 10, by Commissioner Mental Hygiene, Dpt. Mental Hygiene, Capitol, Albany, refrigeration work and equipment at New York State Psychiatric Institute and Hospital; adv. E. N.-R. Sept. 13.

STATION FINISH—**New York, N. Y.**—Sept. 25, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., station finish on 14th, 23rd, 34th St.—Pennsylvania and 42nd St. Stations, Rapid Transit R.R. along and under Greenwich and 8th Aves. from Bank to West 48th Sts.

TRANSFORMER BUILDING, etc.—**New York, N. Y.**—Sept. 24, by S. W. Wynne, pres. Bd. Health, Dpt. Health, 505 Pearl St., altering and constructing transformer building and light and power house system additions at Riverside Hospital, North Brother Island.

SWIMMING POOL—**Rye, N. Y.**—Sept. 26, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, rein.-con., recirculating type outdoor swimming pool, at Rye Beach Amusement Park. J. Downer, Bronxville, ch. engr.; adv. E. N.-R. Sept. 13.

WHARF—**Wash., D. C.**—Sept. 26, by District Comrs., District Bldg., reconstructing District of Columbia Morgue Wharf.

CULVERT, etc.—**East St. Louis, Ill.**—Oct. 1, by East Side Levee & Sanitary Dist., Metropolitan Bldg., double 5 x 5 ft. rein.-con. culvert 113 ft. long, connected at manhole with double 72 in. corrugated pipe culvert 56 ft. long with head-wall and spillway. E. F. Harper, c/o owner, engr.

LIGHTING SYSTEM—**Stanberry, Mo.**—Sept. 25, by Bd. P. Wks., lighting system, power plant, incl. diesel engines. $30,000. Henrici-Lowry Eng. Co., 114 West 10th St., Kansas City, engrs.

GENERATING UNIT—**Saskatoon, Sask.**—Oct. 10, by City Commissioner, City Hall, 7,500 or 10,000 kw. steam turbine generating unit complete with condenser, auxiliary equipment.

Bids Received

SUBWAY—**Long Island City, N. Y.**—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York, Sept. 7, constructing Sect. 1, Route 108, Rapid Transit R.R. along and under Jackson Ave. and Northern Blvd., from W. G. T. Constr. Co., Inc., 247 Park Ave., New York, $6,974,000. Noted Aug. 23.

Contracts Awarded

TUNNEL—**Boston, Mass.**—Jordan Marsh & Co., Summer St., concrete tunnel connecting buildings across Bedford St., to Coleman Bros., Inc., 245 State St. Est. $25,000.

LAKE HOUSE — **Albany, N. Y.** — Bd. Contr. & Supply, City Hall, lake house in Washington Park, to A. Marinello, Madison and Western Aves., $98,865. Noted Aug. 16.

FIRE ALARM SYSTEM — **Long Island City, N. Y.**—J. J. Dorman, comr. Fire Dpt., Municipal Bldg., New York, underground fire alarm system, Queens Boro, to W. K. Kenny Co., 114 5th Ave., New York, $24,985; and to J. Sugden, 67 West 44th St., New York, $37,476. Noted Aug. 9.

FIRE ALARM SYSTEM — **New York, N. Y.**—J. J. Dorman, comr. Fire Dpt., Municipal Bldg., portion underground fire alarm system, Bronx Boro, to W. F. Kenny, 443 East 23rd St., (1) $2,903 and (2) $21,080. Noted Aug. 9.

STATION FINISH—**New York, N. Y.**—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., station finish work for 145th St. station Rapid Transit R.R., to C. Meads & Co., 217 West 14th St., $215,000. Noted Aug. 30.

TIES and TIMBER—**New York, N. Y.**—Bd. Transportaton, J. H. Delaney, chn., 49 Lafayette St., treated ties, to Eppinger & Russell Co., 11 Park Pl., $91,410; untreated ties, to Union Lumber Co., Grand Central Terminal, $34,907. Noted Aug. 30.

GRANITE FACINGS — **New York and New Jersey** — New York State Bridge & Tunnel Comn. and New Jersey Interstate Bridge & Tunnel Comn., Administration Bldg., New York, granite facings at New York and New Jersey Plazas, Holland Tunnel, to De Riso Constr. Co., 551 5th Ave., New York, $304,000 and $354,000 respectively. Noted Sept. 13.

SWIMMING POOLS—**Minneapolis, Minn.**—See "Buildings—Commercial."

GRAIN ELEVATOR—**Hutchinson, Kan.**—L. H. Pettit Grain Co., 39 x 42 ft. grain elevator, 160 ft. high, rein.-con., to Chalmers & Borton, 720 Pioneer Trust Bldg., Kansas City, Mo.

STORAGE BINS—**Moundridge, Kan.**—Moundridge Milling Co., storage bins, incl. 4 tanks, 100 ft. high, 100,000 bu. capacity, rein.-con., to Chalmers & Borton, 720 Pioneer Trust Bldg., Kansas City, Mo. Private plans.

PIPE LINE—**Texas**—Texas Pipe Line Co. (subsidiary Texas Co., 17 Battery Pl., New York), 80 mi. 8 in. pipe line between Gray Co. and Electra, (total distance 153 mi.), to C. F. Rayle, White Deer, $1,600,000 —140 mi. c.i. pipe line between point near Houston to Pt. Arthur, to Youngstown Sheet & Tube Co., Youngstown, O.—furnishing 25,000 tons 8 in. c.i. pipe for line from Kingsmill to Vernon and Wichita Falls, to A. O. Smith Corp., 27th and Keefe Sts., Milwaukee, Wis.

GRAIN ELEVATOR—**Amarillo, Tex.**—S. A. Jones, 1008 Fisk Medical & Professional Bldg., 50 x 100 ft. grain elevator, iron, 2901 Buchanan St. $35,000. Owner builds.

GAS PIPE LINE—**Three Rivers, Tex.**—J. A. Harper, Three Rivers, 2 in. gas pipe line from gas well northeast of here to glass factory. $25,000. Owner builds. Private plans.

SUBWAY—**Toronto, Ont.**—Toronto Terminals Ry. Co., New Union Sta., J. W. R. Ambrose, engr., rein.-con., steel subway, foot of Yonge St., to Nelson River Constr. Co., 124 Pears Ave. Est. $250,000.

COALING PLANT—**Windsor, Ont.** — Canadian Pacific Ry., Montreal, Que., J. M. R. Fairbairn, ch. engr., general contract coaling plant, 67 ft. high, concrete, brick, to Ernest Clark Ltd., 200 Banwell St. Est. $40,000.

Materials

Proposed Work

CAST IRON PIPE, etc.—**Amarillo, Tex.**—City soon takes new bids 1,200 ft. 16 ft. lengths 6 in. c.i. pipe, 4 tons 6 and 8 in. fittings. Former bids rejected. H. B. Jones, City Hall, engr.

PIPE—**Monterey Park, Calif.**—City purchasing 2,700 ft. 8 in. Class 150 centrifugal c.i. pipe or equal. A. W. Langley, city clk.

Bids Desired

CORPORATION COCKS, etc. — **New York, N. Y.**—Sept. 19, by P. J. Dooling, comr. Purchase, Municipal Bldg., corporation cocks, hydrant parts to Dpt. Water Supply, Gas & Electricity.

LUMBER, etc.—**New York, N. Y.**—Sept. 17, by P. J. Dooling, comr. Purchase, Municipal Bldg., lumber and wood paving blocks to Dpt. Parks, Plant & Structures. Water Supply, Gas & Electricity, and Police Dpts.

PORTLAND CEMENT, etc. — **Long Island City, N. Y.**—Sept. 19, by B. M. Patten, pres. Queens Boro, Queens Subway Bldg., 4,000 bags portland cement; 60,000 gal. asphaltic macadam binder.

ROOFING MATERIALS — **New York, N. Y.**—Sept. 14, by P. J. Dooling, comr. Water Supply, Gas & Electricity, Municipal Bldg., roofing and building materials to Dpts. Correction, Parks, Plant & Structures and Police.

PORTLAND CEMENT, etc.—**Cocoa, Fla.**—Sept. 21, by Comrs. Brevard Co., 275 bbl. portland cement; 12,000 lb. reinforcing 3,268 lb. special lengths reinforcing; 135 cu.yd. washed rock; 95 cu.yd. sand; 38 window guards; 12 sects. bunks of 4 bunks each; metal partition, f.o.b. Titusville. C. R. Copeland, chn.

CABLE—**Chicago, Ill.**—Sept. 20, by M. J. O'Brien, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., lead covered cable; adv. E. N.-R. Sept. 13.

PUMP, etc.—**Maud, Okla.**—Mayor and City Council in market 50 g.p.m. deep well pump, 10 hp. motor.

WATER METERS and BOXES — **Norman, Okla.**—Mayor and Council in market one hundred twenty-five ¾ in. water meters and boxes.

HYDRATED LIME — **Oklahoma City, Okla.** — Mayor and City Council in market 1,200 tons hydrated lime. M. Peshek, city clk.

WATER METERS, etc.—**Perry, Okla.**—Mayor and City Council in market fifty ¾ in. water meters and boxes.

WATER METERS—**Prague, Okla.**—H. W. Hartman, mayor, and City Council in market fifty ¾-in. water meters.

WATER METERS — **Quinton, Okla.** — Mayor and City Council in market one hundred ¾ in. water meters.

WATER METERS, etc.—**Seminole, Okla.**—Mayor and City Council in market one hundred ¾ in. water meters and boxes. P. Noe, city clk.

WATER METERS.— **Temple, Okla.** — Mayor and Council in market fifty ¾ in water meters.

Contracts Awarded

BINDER STONE—**Brooklyn, N. Y.**—J. J. Byrne, pres. Brooklyn Boro, Boro Hall, 6,000 cu.yd. binder stone, to New York Trap Rock Co., 250 Park Ave., New York, $11,640; 10,000 cu.yd. asphalt sand, to Z. Mahoney, 557 46th St., $10,000; 6,000 cu.yd. steam cinders, to M. F. Hickey Co., foot 6th St., $8,220 6,500 bbl. portland cement to Quality Builders Contg. Co., 200 3rd Ave., $15,990; and 4,500 cu.yd. broken stone, to Colgan Contg. Co., 90 William St., New York, $6,830. Grand total $52,680. Noted Aug. 9.

MINERAL AGGREGATE, etc. — **Long Island City, N. Y.** — B. M. Patten, pres. Queens Boro, Queens Subway Bldg., 500 cu.yd. mineral aggregate, to Hunterspoint Lumber & Supply Co., Anable Ave., $1,275; 50,000 gal. asphaltic macadam binder, to Standard Oil Co., 20 Bway., New York, $3,160. Noted Sept. 6.

STEAM ASHES—**Long Island City, N. Y.**—B. M. Patten, pres. Queens Boro, Queens Subway Bldg., 8,000 tons steam ashes in scows at Dock Asphalt Plant 1, Flushing, to Moran Bros. Contg. Co., 17 Batetry Pl., New York, at $1.75 per ton, total $14,600. Noted Aug. 9.

PORTLAND CEMENT—**New York, N. Y.**—J. Miller, pres. Manhattan Boro, Municipal Bldg., 15,000 bags portland cement, to P. Sammone, 1358 Brook Ave., $9,225; 2,000 cu.yd. concrete and paving sand, to Ames & Carroll, 344 Kingsbridge Rd., $2,800. Noted Sept. 6.

CAST IRON PIPE—**Chicago, Ill.**—City, City Hall, 1,920 tons 8 and 12 in. water pipe f.o.b. cars various pipe yards, to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., at $41.90 per ton. Noted Aug. 24.

Foreign

Brazil, Bahia — Electric Bond & Share Co., 2 Rector St., New York, N. Y. (Emprezas Electricas Brasileiras and American Foreign Power Co.) plans automatic telephone system, throughout city; hydro-electric plant on Paraguassu River; two traffic elevators to link together two transportation systems.

South Africa—W. L. Kilcoin, assistant trade comr., Johannesburg, reports plans improving roads, bridges and causeways in Transvaal. £470,000.

See proposal advertising on page 183

Constr. News page 147

UNIT PRICES

Dam—Youngstown, Ohio

Nineteen bids were opened by Board of Directors of Mahoning Valley Sanitary District, 901 City Bank Bldg., June 12, for Mineral Ridge Dam and appurtenant work, Contract No. 6. Dam is part of system of works for furnishing public water supply to Youngstown and Niles. Includes earth dam with concrete corewall and concrete spillway section across valley of Meander Creek in Weathersfield Township, Trumbull County, at point about 2 mi. south of center of city of Niles, together with access road and other appurtenant work. Involves about 170,000 cu.yd. embankment and 50,000 cu.yd. concrete masonry. Unit prices of lowest six and highest bidders, together with average unit prices are given below. Bidders: (A) A. Guthrie & Co., Inc., Builders' Exchange, St. Paul, Minn., (awarded contract); (B) R. C. Huffman Construction Co., Elyria; (C) Fegles Construction Co., Ltd., 529 South 7th St., Minneapolis; (D) Pittsburgh Foundation Co., Keystone Bldg., Pittsburgh; (E) A. Phelps & Sons, 5151 Braden St., Detroit; (F) L. E. Meyers Co., Monadnock Bldg., Chicago; (G) W. J. Schirmer Co., 1720 Euclid Ave., Cleveland. W. H. Dittoe, chief engineer; G. Gale Dixon, deputy chief engineer.

	A	B	C	D	E	F	G	Unit Prices Average of 6 Lower Bids	Unit Prices All Except High Bid
Stream control and pumping (lump sum)	$28,500.00	$7,500.00	$18711.00	$3,050.00	$16,200.00	$14,699.00	$20,000.00	$14,776.67	$17,568.33
Clearing and grubbing (lump sum)	1,000.00	6,500.00	2,743.00	1,500.00	5,000.00	2,000.00	10,000.00	3,123.83	4,516.83
8,600 cu.yd. removal of topsoil	.35	.50	.88	.65	.60	.50	1.00	.58	.80
180,000 cu.yd. earth excavation in open cut	.29	.40	.555	.62	.60	.60	1.70	.51	.61
6,300 cu.yd. earth excavation in trench —0 to 10 ft. deep	1.50	.60	1.215	.80	1.55	.70	1.00	1.06	1.29
2,400 cu.yd. earth excavation in trench —10 to 20 ft. deep	2.00	1.10	2.54	1.40	3.00	2.00	1.20	2.01	2.08
1,400 cu.yd. earth excavation in trench —20 to 30 ft. deep	2.50	2.00	3.04	3.00	6.00	3.00	2.00	3.26	3.32
300 cu.yd. earth excavation in trench —over 30 feet deep	3.50	5.00	2.81	5.00	15.00	5.00	5.00	6.05	5.73
7,000 cu.yd. rock excav. in open cut	1.75	1.50	3.13	1.80	4.00	2.00	2.00	2.36	2.86
2,300 cu.yd. rock excav. in cut-off and core-wall trench	3.50	3.50	5.47	2.50	17.00	5.50	3.00	6.25	6.74
2,800 cu.yd. rock excav. in trench for raw water conduit	3.50	2.50	2.87	3.00	7.00	5.50	4.00	4.06	4.32
50 M. ft. B.M. sheeting and bracing left in place	50.00	60.00	56.14	25.00	35.00	50.00	50.00	46.02	56.90
66,000 cu.yd. forming embankment for earth dam	.29	.52	.137	.15	.10	.20	1.10	.233	.302
7,200 cu.yd. forming embankment for roads	.29	.35	.35	.20	.015	.20	1.00	.234	.290
5,600 cu.yd. placing loam	1.00	.50	1.25	.20	.20	1.50	1.00	.78	.98
5 acre seeding	300.00	100.00	218.20	350.00	100.00	50.00	500.00	186.37	181.84
18,000 sq.ft. steel sheet piling	1.20	2.05	1.22	1.90	1.50	1.56	1.50	1.57	1.57
69,000 bbl. portland cement	2.04	2.15	2.64	2.25	3.22	2.52	3.00	2.47	2.51
28,000 cu.yd. conc. masonry—in spillway and abutment walls	7.00	6.70	5.19	8.10	5.60	7.22	9.50	6.64	7.81
3,000 cu.yd. conc. masonry—in gate house	7.00	15.00	7.90	8.25	6.33	9.20	11.74	8.95	10.20
3,400 cu.yd. conc. masonry—in apron	7.00	7.00	5.61	8.10	4.50	7.52	11.74	6.62	7.61
15,700 cu.yd. conc. masonry—in core wall	7.60	7.50	7.09	8.10	5.60	9.71	14.10	7.60	9.13
510 cu.yd. conc. masonry—casing of 88 in. steel pipe	10.00	14.50	11.16	8.75	6.60	7.90	15.50	9.82	10.09
80 cu.yd. reinf. conc	12.00	25.00	19.10	11.00	30.00	19.25	16.50	19.39	23.40
170 cu.yd. miscellaneous plain conc.	10.00	8.00	26.36	11.00	24.00	9.35	15.50	14.79	15.05
80,000 lb. steel reinforcement	.04	.045	.04	.045	.045	.065	.035	.047	.047
70 cu.yd. rubble masonry wall and pylons	20.00	12.00	31.17	15.00	15.00	19.70	108.00	18.81	19.77
15,500 sq.yd. stone slope paving	3.30	1.50	3.23	4.40	3.50	5.00	13.50	3.49	4.15
350 sq.yd. gutter paving	3.30	1.50	3.12	1.25	1.90	5.00	13.50	2.68	3.05
4,000 cu.yd. rip-rap	2.00	2.50	6.36	7.30	1.90	5.00	10.90	4.18	5.30
4,000 cu.yd. screened gravel backing	3.00	2.50	3.32	3.00	2.00	3.50	5.00	2.89	3.07
7,500 lin.ft. drilling holes in rock or masonry	.50	.65	1.06	.10	1.00	2.82	2.00	1.02	1.22
4,500 lin.ft. grout pipe	.50	.40	.31	.25	.65	.52	2.00	.44	.52
500 cu.yd. grout	16.00	16.00	11.60	3.50	30.00	6.98	25.00	14.01	14.13
11,100 sq.yd. water-bound macadam road surfacing	1.00	1.40	1.01	.85	1.33	1.35	2.10	1.16	1.38
4,900 sq.yd. bituminous macadam road surfacing	1.20	1.80	2.48	.90	2.65	2.20	2.50	1.87	2.19
5,800 lin.ft. wire-rope guard rail	.60	.60	.76	.85	.40	.43	1.50	.61	.86
250 lin.ft. 3 in. W. I. pipe railing	2.00	2.80	4.62	3.00	3.00	6.00	3.00	3.57	3.16
2 in. W. I. pipe railing (lump sum)	250.00	750.00	185.00	500.00	703.00	949.19	585.00	639.53	598.23
548 lin.ft. 88 in. steel plate pipe	22.00	20.60	25.73	26.00	28.75	28.19	21.00	25.21	27.01
12,000 sq.ft. mortar lining for steel pipe	.60	.25	.62	.35	.60	.66	.30	.51	.51

Engineering News-Record, Issue of September 13, 1928

(*Concluded on page 148a*)

Constr. News page 148

UNIT PRICES Continued on Page 148a